90357

PROGRAM LISTINGS

FOR THE REPORT

ON

BIO-DATA INFORMATION SYSTEM
FOR
PUBLIC ENTERPRISES SELECTION BOARD
AND
CENTRAL BOARD OF EXCISE & CUSTOMS

THAPAR COLLEGE OF ENGINEERING, PATIALA
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(DEEMED TO BE A UNIVERSITY)

1988

VOLUME 2

```
**************AFLAG1 COMMAND FILE**************
***FOR THE LISTING OF INFORMATION OF ALL PERSONS
SET TALK OFF
clea
CLOS DATA
sele 4
use basinf inde basinf
REIN
GO TOP
PUBL ONE
do while .t.
 one=' '
 @5,5 say 'Press 1 >if you want the complete information'
 @6,5 SAY 'Press 2 >if you want selected information'
 @7,5 say 'press <return> to go back to previous menu'
 @9,5 say 'Enter your choice' get one
 read
 CLEA
 @10,10 SAY 'PLEASE CONNECT THE PRINTER'
 WAIT
 DO CASE
  CASE one= '1'
   set devi to prin
   do while .not. eof()
    id=idno
    AEP=EMP_CODE
    @PROW(),55 SAY '**********************'
    @prow()+1,55 say 'COMPLETE INFORMATION'
    @PROW()+1,55 SAY '**********************'
    DO COMP1
    DO COMP2
    DO COMP3
    DO COMP4
    DO COMP5
    DO COMP6
    EJECT
    SELE 4
    SKIP
   ENDDO
   SET DEVI TO SCREE
  CASE ONE= '2'
   DO OPTIONR
   IF CHOIC=' '
    clea
    LOOP
   ENDIF
   SET DEVI TO PRINT
   DO AFLAG11
   SET DEVI TO SCREE
   CASE one = ' '
   CLEA
   RETU
 ENDCASE
ENDDO
clea
RETU
```

```
**********AFLAG11 COMMAND FILE**********
***A MODULE OF THE AFLAG1 PROGRAM
SELE 4
USE BASINF INDE BASINF
REIN
GO TOP
AA=SPACE(60)
DO CASE
 CASE CHOIC= '1'
  DO WHILE .NOT. EOF()
   ID=IDNO
   AEP=EMP_CODE
   DO COMP1
   EJEC
   SELE 4
   SKIP
  ENDDO
 CASE CHOIC= '2'
  DO WHILE .NOT. EOF()
   ID=IDNO
   AA=TRIM(LASTNAME)+' '+TRIM(FIRSTNAME)
   AA=UPPE(AA)
   @PROW()+2,1 SAY 'NAME : '+AA
   AEP=EMP_CODE
   @PROW(),45 SAY 'EMP. CODE : '+AEP
   @PROW(),78 SAY 'IDENTIFICATION NO. : '+ID
   DO COMP2
   EJEC
   SELE 4
   SKIP
  ENDDO
 CASE CHOIC= '3'
  DO WHILE .NOT. EOF()
   ID=IDNO
   AA=TRIM(LASTNAME)+' '+TRIM(FIRSTNAME)
   AA=UPPE(AA)
   @PROW()+2,1 SAY 'NAME : '+AA
   AEP=EMP_CODE
   @PROW(),45 SAY 'EMP. CODE : '+AEP
   @PROW(),78 SAY 'IDENTIFICATION NO. : '+ID
   DO COMP3
   EJEC
   SELE 4
   SKIP
  ENDDO
 CASE CHOIC='4'
  DO WHILE .NOT. EOF()
   ID=IDNO
   AA=TRIM(LASTNAME)+' '+TRIM(FIRSTNAME)
   AA=UPPER(AA)
   @PROW()+2,1 SAY 'NAME : '+AA
   AEP=EMP_CODE
   @PROW(),45 SAY 'EMP. CODE : '+AEP
   @PROW(),78 SAY 'IDENTIFICATION NO. : '+ID
   DO COMP4
   EJECT
   SELE 4
   SKIP
  ENDDO
 CASE CHOIC= '5'
  DO WHILE .NOT. EOF()
   ID=IDNO
   AA=TRIM(LASTNAME)+' '+TRIM(FIRSTNAME)
   AA=UPPE(AA)
   @PROW()+2,1 SAY 'NAME : '+AA
```

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    @PROW(),78 SAY 'IDENTIFICATION NO. : '+ID
    DO COMP5
    EJEC
    SELE 4
    SKIP
   ENDDO
  CASE CHOIC = '6'
   DO WHILE .NOT. EOF()
    ID=IDNO
    AA=TRIM(LASTNAME)+' '+TRIM(FIRSTNAME)
    AA=UPPE(AA)
    @PROW()+2,1 SAY 'NAME : '+AA
    AEP=EMP_CODE
    @PROW(),45 SAY 'EMP. CODE : '+AEP
    @PROW(),78 SAY 'IDENTIFICATION NO. : '+ID
    DO COMP6
    EJEC
    SELE 4
    SKIP
   ENDDO
ENDCASE
CLEA
RETU
```

```
**********aflag2 command file**********
***FOR THE LISTING OF INFORMATION OF A SINGLE PERSON
set talk off
clos  data
publ one
clear
error ='t'
do while error = 't'
 clea
 nerror='t'
 do while nerror='t'
  aa=spac(20)
  @row()+1,5 say 'ENTER LAST NAME OF PERSON'
  @ROW()+1,5 SAY 'WHOSE INFORMATION YOU WANT' get aa PICT '@X'
  READ
  IF AA=SPACE(20)
   clea
   retu
  endif
  aa=upper(aa)
  aa=trim(aa)
  sele 4
  use basinf inde baslname
  REIN
  GO TOP
  clea
  @row()+1,10 say 'RECORD#'
  @ROW(),20 SAY 'LASTNAME'
  @row(),40 say 'FIRSTNAME'
  @ROW(),60 SAY 'EMPL. CODE'
  @ROW(),73 SAY 'ID. NO'
  APP = 0
  sele 4
  SEEK aa
  DO WHILE upper(lastname)=aa
   APP = APP + 1
   @row()+2,0 say recno()
   @row(),20 say lastname
   @row(),40 say firstname
   @row(),60 say emp_code
   @row(),73 say idno
   if row() > 20
    wait
    clea
    LOOP
   endif
   sele 4
   skip
  enddo
  sele 4
  if app=0
   clea
   @5,5 say 'NO RECORD MATCHES THE GIVEN LASTNAME'
   @7,5 SAY 'TRY AGAIN'
   GO TOP
   NERROR='t'
  else
   reno=0
   @row()+1,5 say 'enter desired recno : ' get reno pict '99999'
   READ
   IF RENO=0
    clea
    retu
   endif
   nerror='f'
  ENDIF
```

```
 endd
 go reno
 id = idno
 AEP = EMP_CODE
 clear
 one=' '
 @5,5 say 'PRESS 1> if you want complete information'
 @7,5 say 'PRESS 2> if you want selected information'
 @9,5 say 'ENTER  your choice : ' get one
 read
 do case
  case one='1'
   set devi to prin
   @PROW(),55 SAY '**********************'
   @prow()+1,55 say 'COMPLETE INFORMATION'
   @PROW()+1,55 SAY '**********************'
   DO COMP1
   DO COMP2
   DO COMP3
   DO COMP4
   DO COMP5
   DO COMP6
   EJECT
   SET DEVI TO SCREE
  CASE ONE= '2'
   DO AFLAG21
  CASE ONE= ' '
   CLEA
   RETU
 ENDCASE
 CLEA
 two=' '
 @5,5 say 'Do you want information of more persons:;
 (Y or N)' get two
 read
 if uppe(two)='Y'
  error='t'
  clea
 else
  error='f'
  clea
 endif
enddo
retu
```

```
**********AFLAG21 COMMAND FILE**********
***A MODULE OF THE AFLAG2 PROGRAM
error = 't'
do while error = 't'
 do optionr
 clea
 if choic= ' '
  retu
 endif
 STORE SPACE(60) TO AA
 set devi to prin
 DO CASE
  CASE CHOIC = '1'
   DO COMP1
   EJECT
  CASE CHOIC = '2'
   AA=TRIM(LASTNAME)+' '+TRIM(FIRSTNAME)
   AA=UPPE(AA)
   @PROW()+2,1 SAY 'NAME : '+AA
   @PROW(),50 SAY 'EMP. CODE : '+AEP
   @PROW(),78 SAY 'IDENTIFICATION NO. : '+ID
   DO COMP2
   EJECT
  CASE CHOIC = '3'
   AA=TRIM(LASTNAME)+' '+TRIM(FIRSTNAME)
   AA=UPPE(AA)
   @PROW()+2,1 SAY 'NAME : '+AA
   @PROW(),50 SAY 'EMP. CODE : '+AEP
   @PROW(),78 SAY 'IDENTIFICATION NO. : '+ID
   DO COMP3
   EJECT
  CASE CHOIC = '4'
   AA=TRIM(LASTNAME)+' '+TRIM(FIRSTNAME)
   AA=UPPE(AA)
   @PROW()+2,1 SAY 'NAME : '+AA
   @PROW(),50 SAY 'EMP. CODE : '+AEP
   @PROW(),78 SAY 'IDENTIFICATION NO. : '+ID
   DO COMP4
   EJECT
  CASE CHOIC = '5'
   AA=TRIM(LASTNAME)+' '+TRIM(FIRSTNAME)
   AA=UPPE(AA)
   @PROW()+2,1 SAY 'NAME : '+AA
   @PROW(),50 SAY 'EMP. CODE : '+AEP
   @PROW(),78 SAY 'IDENTIFICATION NO. : '+ID
   DO COMP5
   EJECT
  CASE CHOIC = '6'
   AA=TRIM(LASTNAME)+' '+TRIM(FIRSTNAME)
   AA=UPPE(AA)
   @PROW()+2,1 SAY 'NAME : '+AA
   @PROW(),50 SAY 'EMP. CODE : '+AEP
   @PROW(),78 SAY 'IDENTIFICATION NO. : '+ID
   DO COMP6
   EJECT
 ENDCASE
 set devi to scree
 clear
 five=' '
 @10,10 say 'Do you want more information of the same person (Y or N) : '
 read
 if upper(five)='Y'
  error='t'
  SELE 4
  GO RENO
```

```
  REP=EMP_CODE
 else
  error='f'
 endif
enddo
retu
```

```
**********comp1 command file**********
***FOR PRINTING THE BASINF RECORD
AEMP=EMP_CODE
ASSKM=SSKM
adofb=DTOC(d_of_birth)
asex=sexcode
amar=marstatus
anoc=no_of_chil
apa1=pre_addr
aph1=pre_phone
apa2=per_addr
aph2=per_phone
ascstot=scstot
aexserman=exserman
ADOD=DTOC(DOOFDRAWN)
abasicpay=basicpay
L1=language1
12=language2
13=language3
14=language4
ar11=ri1
ar12=ri2
ar13=ri3
ar14=ri4
aw11=wi1
aw12=wi2
aw13=wi3
aw14=wi4
as11=si1
as12=si2
as13=si3
as14=si4
adep=DEPARTMENT
adesignatio=designatio
ID=IDNO
bb=' '
@prow()+1,1 say 'BASIC INFORMATION'
@PROW()+1,1 SAY '-----------------'
AA=TRIM(ASSKM)+BB+TRIM(LASTNAME)+BB+TRIM(FIRSTNAME)
AA=UPPE(AA)
@prow()+1,1 say '(1)  NAME : '+AA
@prow()+1,1 say '      EMP_CODE : '+EMP_CODE
@PROW(),25 SAY 'IDENTIFICATION NO : '+IDNO
@prow()+1,1 say '(2)  DATE OF BIRTH : '+ADOFB
sele 2
USE SEX INDE SEX
SEEK asex
des=descrp
des=trim(des)
@prow(),pcol()+5 say 'SEX : '+des
sele 2
use mar inde mar
SEEK amar
@prow(),pcol()+5 say 'MARITAL STATUS : '+DESCRP
@prow(),pcol()+5 say 'NO. OF CHILDREN : '+ANOC
@PROW()+2,1 SAY '(3)  PRESENT ADDRESS : '+APA1
@PROW()+1,1 SAY '      PRESENT PHONE : '+APH1
@PROW()+1,1 SAY '      PERMANENT ADDRESS : '+APA2
@PROW()+1,1 SAY '      PERMANENT PHONE : '+APH2
SELE 2
USE SCHEDU INDE SCHEDU
SEEK ASCSTOT
@PROW()+2,1 SAY '(4)  SCHEDULED CASTE/TRIBE : '+DESCRP
SELE 2
USE EXSER INDE EXSER
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```
@PROW(7,PCOL()+10 SAY 'EXSERVICEMAN : '+DESCRP
SELE 2
USE DESIG INDE DESIG
SEEK ADESIGNATIO
@PROW()+2,1 SAY '(5)  PRESENT DESIGNATION : '+DESCRP
@PROW(),PCOL()+10 SAY 'DEPARTMENT : '+ADEP
@PROW()+1,6 SAY 'BASIC PAY : '+ABASICPAY                    '
@PROW(),PCOL()+10 SAY 'DATE FROM WHICH DRAWN : '+ADOD
STORE SPACE(3) TO A1,A2,A3,A4,B1,B2,B3,B4,C1,C2,C3,C4,D1,D2,D3,D4
SELE 2
USE LANGUAGE INDE LANGUAGE
SEEK L1
A1=DESCRP
SELE 2
USE REAX INDE REAX
SEEK ar11
A2=DESCRP
SELE 2
USE REAX INDE REAX
SEEK aW11
A3=DESCRP
SELE 2
USE REAX INDE REAX
SEEK aS11
A4=DESCRP
SELE 2
USE LANGUAGE INDE LANGUAGE
SEEK L2
B1=DESCRP
SELE 2
USE REAX INDE REAX
SEEK ar12
B2=DESCRP
SELE 2
USE REAX INDE REAX
SEEK aW12
B3=DESCRP
SELE 2
USE REAX INDE REAX
SEEK aS12
B4=DESCRP
SELE 2
USE LANGUAGE INDE LANGUAGE
SEEK L3
C1=DESCRP
SELE 2
USE REAX INDE REAX
SEEK ar13
C2=DESCRP
SELE 2
USE REAX INDE REAX
SEEK aW13
C3=DESCRP
SELE 2
USE REAX INDE REAX
SEEK aS13
C4=DESCRP
SELE 2
USE LANGUAGE INDE LANGUAGE
SEEK L4
D1=DESCRP
SELE 2
USE REAX INDE REAX
SEEK ar14
D2=DESCRP
SELE 2
USE REAX INDE REAX
SEEK aW14
D3=DESCRP
SELE 2
USE REAX INDE REAX
```

```
D4=DESCRI
@PROW()+2,1 SAY '(6)  LANGUAGE                        READ     WRITE     SPEAK'
@PROW()+1,1 SAY '      ........                       ....     .....     .....'
@PROW()+1,6 SAY  A1+' '+A2+'      '+A3+'          '+A4
@PROW()+1,6 SAY  B1+' '+B2+'      '+B3+'          '+B4
@PROW()+1,6 SAY  C1+' '+C2+'      '+C3+'          '+C4
@PROW()+1,6 SAY  D1+' '+D2+'      '+D3+'          '+D4
RETU
```

```
**********COMP2 COMMAND FILE**********
***FOR PRINTING THE EDUCATIONAL RECORDS
SELE 1
USE EUDINF INDE EUDINF
GO TOP
SEEK ID
IF EOF() .OR. ( IDNO # ID ) .OR. ( EMP_CODE # AEP )
 @PROW()+2,1 SAY '********** THERE IS NO EDUCATIONAL RECORD FOR THIS NAME
 RETURN
ENDIF
@PROW()+2,1 SAY 'EDUCATIONAL INFORMATION'
@PROW()+1,1 SAY '----------------------------'
@PROW()+1,1 SAY REPL('*',130)
@PROW()+1,1 SAY 'QUALIFICATION'
@PROW(),20 SAY 'YEAR'
@PROW(),28 SAY 'BOARD'
@PROW(),48 SAY 'RANK'
@PROW(),57 SAY 'DIVISION'
@PROW(),80 SAY 'COURSE'
@PROW()+1,20 SAY REPL('-',110)
@PROW()+1,1 SAY 'SUBJECTS'
@PROW(),70 say 'FIELD OF SPECIALISATION'
@PROW()+1,1 SAY REPL('*',130)
DO WHILE IDNO=ID .AND. EMP_CODE=AEP .AND. (.NOT. EOF())
 AQ=QUALIFICAT
 AQY=Q_YEAR
 AQB=Q_BOARD
 AQC=Q_COURSE
 AQD=Q_DIV
 AQR=Q_RANK
 ASUB1=SUBJECT1
 ASUB2=SUBJECT2
 ASUB3=SUBJECT3
 ASUB4=SUBJECT4
 AFOFSP=FI_OF_SPEC
 SELE 2
 USE QUAL INDE QUAL
 SEEK AQ
 @PROW()+1,1 SAY DESCRP
 @PROW(),20 SAY AQY
 @PROW(),28 SAY AQB
 @PROW(),48 SAY AQR
 SELE 2
 USE DIVS INDE DIVS
 SEEK AQD
 @PROW(),57  SAY DESCRP
 SELE 2
 USE COUR INDE COUR
 SEEK  AQC
 @PROW(),80 SAY DESCRP
 @PROW()+1,20 SAY REPL('-',110)
 SELE 2
 USE SUBJECT INDE SUBJECT
 SEEK ASUB1
 SA=DESCRP
 SEEK ASUB2
 SB=DESCRP
 SEEK ASUB3
 SC=DESCRP
 SEEK ASUB4
 SD=DESCRP
 SS=TRIM(SA)+'  '+TRIM(SB)+'  '+TRIM(SC)+'  '+TRIM(SD)
 @PROW()+1,1 SAY SS
 SELE 2
 USE FOFSP INDE FOFSP
```

```
 SE-DESCRP
 @PROW(),70 SAY SE
 @PROW()+1,1 SAY REPL('-',130)
 SELE 1
 SKIP
ENDDO
@PROW()+1,1 SAY REPL('*',130)
RETU
```

```
**********COMP3 COMMAND FILE**********
***FOR PRINTING OUT THE TRAININF RECORDS
SELE 1
USE TRAININF INDE TRAININF
GO TOP
SEEK ID
IF EOF() .OR. ( IDNO # ID ) .OR. ( EMP_CODE # AEP )
 @PROW()+2,1 SAY '********** THERE IS NO TRAINING RECORD FOR THIS NAME ***
 RETURN
ENDIF
@PROW()+2,1 SAY 'TRAINING INFORMATION '
@PROW()+1,1 SAY '----------------------'
@PROW()+1,1 SAY REPL('*',130)
@PROW()+1,1 SAY 'TRAINING COURSE'
@PROW(),43 SAY 'LEVEL OF COURSE'
@PROW(),56 SAY 'NAME OF COUNTRY'
@PROW(),89 SAY 'NAME OF INSTITUTION'
@PROW(),116 SAY 'DURATION'
@PROW(),125 SAY 'YEAR'
@PROW()+1,1 SAY REPL('*',130)
DO WHILE (.NOT. EOF()) .AND. IDNO=ID .AND. EMP_CODE=AEP
 AT_CODE=T_CODE
 AT_LEVEL=T_LEVEL
 AT_COUN=T_COUNTRY
 AT_INS=T_INSTITU
 AT_DUR=T_DURATIO
 AT_YEAR=T_YEAR
 SELE 2
 USE TRAIN INDE TRAIN
 SEEK AT_CODE
 SA=DESCRP
 @PROW()+2,1 SAY SA
 SELE 2
 USE LEVTRAIN INDE LEVTRAIN
 SEEK AT_LEVEL
 SB=DESCRP
 @PROW(),43 SAY SB
 SELE 2
 USE COUNTRY INDE COUNTRY
 SEEK AT_COUN
 SC=DESCRP
 @PROW(),56 SAY SC
 @PROW(),89 SAY AT_INS
 @PROW(),119 SAY AT_DUR
 @PROW(),126 SAY AT_YEAR
 @PROW()+1,1 SAY REPL('-',130)
 SELE 1
 SKIP
ENDDO
@PROW()+1,1 SAY REPL('*',130)
CLEA
RETURN
```

```
**************comp4 command file***************
***FOR PRINTING THE EXPERINF RECORDS
sele 1
use experiNF inde EXPERINF
GO TOP
SEEK id
if eof() .or. ( idno # id ) .or. ( emp_code # aep )
 @ PROW()+2,1 SAY '********** THERE IS NO EXPERIENCE RECORD FOR THIS NAME
 RETURN
ENDIF
@prow()+2,1 say 'EXPERIENCE INFORMATION'
@PROW()+1,1 SAY '----------------------'
@PROW()+1,1 SAY REPL('*',130)
@PROW()+1,1 SAY 'DESIGNATION'
@PROW(),45 SAY 'PLACE OF POSTING'
@PROW(),75 SAY 'NAME OF ORGANISATION'
@PROW(),105 SAY 'FROM'
@PROW(),115 SAY 'TO'
@PROW()+1,20 SAY REPL('-',110)
@PROW()+1,1 SAY 'FIELD OF EXPERIENCE'
@PROW(),55 SAY 'REPORTING LEVEL'
@PROW()+1,20 SAY REPL('-',110)
@PROW()+1,1 SAY 'SCALE'
@PROW(),45 SAY 'RESPONSIBILITIES'
@PROW()+1,20 SAY REPL('-',110)
@PROW()+1,1 SAY 'ACHIEVEMENTS'
@PROW(),60 SAY 'REASON FOR CHANGE'
@PROW()+1,1 SAY REPL('*',130)
DO WHILE IDNO=ID .AND. EMP_CODE=AEP .AND. (.NOT. EOF())
 ADES=DESIG_CODE
 APL=PL_OF_POST
 AFI=FI_OF_EXP
 ANA=NA_OF_ORG
 APER=PER_FROM
 APER=STR(APER,4)
 APTO=PER_TO
 APTO=STR(APTO,4)
 AREP=REPO_LEVEL
 ASC=SCALE_CODE
 ARES=RESPONSIB
 AAC=ACHIEVE
 AREC=RECH
 SELE 2
 use desig inde desig
 SEEK ADES
 SA=DESCRP
 @PROW()+1,1 SAY SA
 @PROW(),45 SAY APL
 @PROW(),75 SAY ANA
 SELE 2
 use fofsp inde fofsp
 SEEK AFI
 SB=DESCRP
 @PROW(),105 SAY LEFT(APER,2)+'/'+RIGHT(APER,2)
 @PROW(),115 SAY LEFT(APTO,2)+'/'+RIGHT(APTO,2)
 @PROW()+1,20 SAY REPL('-',110)
 @PROW()+1,1 SAY SB
 @PROW(),55 SAY AREP
 @PROW()+1,20 SAY REPL('-',110)
 SELE 2
 USE SCALE INDE SCALE
 SEEK ASC
 SC=DESCRP
 @PROW()+1,1 SAY SC
 @PROW(),45 SAY ARES
 @PROW()+1,20 SAY REPL('-',110)
```

```
 @PROW()+1,1 SAY AAC
 @PROW(),60 SAY AREC
 SELE 1
 @PROW()+1,1 SAY REPL('-',130)
 SKIP
ENDDO
@PROW()+1,1 SAY REPL('*',130)
RETU
```

---------- PROGRAM NUMBER : 9 ---------- FOR PESB

```
*******************COMP5 COMMAND FILE**********************
***FOR PRINTING THE MEMBERINF RECORDS
SELE 1
USE MEMBERINF INDE MEMBERINF
GO TOP
id=trim(id)
SEEK id
IF  EOF() .OR. ( IDNO # ID ) .OR. ( EMP_CODE # AEP )
 @PROW()+2,1 SAY '********** THERE IS NO MEMBERSHIP RECORD FOR THIS NAME
 RETURN
ENDIF
@PROW()+2,1 SAY 'MEMBERSHIP INFORMATION.'
@PROW()+1,1 SAY '-----------------------'
@PROW()+1,1 SAY REPL('*',130)
@PROW()+1,1 SAY 'NAME OF PROFESSIONAL BODY'
@PROW(),35 SAY 'PUBLICATION DETAILS:'
@PROW()+1,1 SAY REPL('*',130)
DO WHILE IDNO=ID .AND. EMP_CODE=AEP .AND. (.NOT. EOF())
 APR=PROF_BODY1
 APUB=PUBL_DET1
 SELE 2
 @PROW()+2,1 SAY APR
 @PROW(),35 SAY APUB
 SELE 1
 @PROW()+1,1 SAY REPL('-',130)
 SKIP
ENDDO
@PROW()+2,1 SAY REPL('*',130)
RETU
```

---------- PROGRAM NUMBER : 10 ---------- FOR PESB

```
***********COMP6 COMMAND FILE**********
***FOR PRINTING THE PROMINF RECORDS
SET DEVI TO SCREEN
SELE 1
USE PROMINF INDE PROMINF
GO TOP
SEEK ID
SET DEVI TO PRIN
IF EOF() .OR. ( IDNO # ID ) .OR. ( EMP_CODE # AEP )
 @ PROW()+1,1 SAY '********** THERE IS NO PROMOTIONAL RECORD FOR THIS NAME
 RETURN
ENDIF
@PROW()+2,1 SAY 'PROMOTIONAL INFORMATION.'
@PROW()+1,1 SAY '-------------------------'
@PROW()+1,1 SAY REPL('*',130)
DO WHILE IDNO = ID .AND. EMP_CODE=AEP .AND. (.NOT. EOF())
 @PROW()+1,1 SAY '(1)  NATURE OF POST : '
 IF NATOFPOST = '2'
  @PROW(),PCOL() SAY 'SPECIFIC'
  @PROW()+1,16 SAY 'NAME : '+SPECIFY
 ELSE
  @PROW(),PCOL() SAY 'GENERAL'
 ENDIF
 IF EMP_CODE = '1'
  @PROW()+1,8 SAY 'PUBLIC ENTERPRISE : '
  IF SAME_OT = '1'
   @PROW(),PCOL() SAY 'SAME'
  ELSE
   @PROW(),PCOL() SAY 'OTHER'
  ENDIF
 ENDIF
 @PROW()+2,1 SAY '(2)  EXPERIENCE & BACKGROUND : '+DESP_EXP
 @PROW()+2,1 SAY '(3)  REMARKS : '+REMARKS
 @PROW()+2,1 SAY '(4)  REFERENCES : i)  : '+REF1
 @PROW()+1,19 SAY 'ii) : '+REF2
 @PROW()+1,1 SAY REPL('-',130)
 SKIP
ENDDO
@PROW()+2,1 SAY REPL('*',130)
RETU
```

---------- PROGRAM NUMBER : 11 ---------- FOR PESB

```
***************COMPLETE COMMAND FILE*****************
***FOR THE MENU OF REPORTS OFFERED
***A MODULE OF PESB PROGRAM
clear
which=' '
do while .not. which $ '123'
 which= ' '
 @ 3,5 say 'SELECTION MENU CODE'
 @ 4,5 SAY '--------------------'
 @ 6,5 say 'Press 1 > if you want the information of all persons'
 @ 7,5 say 'Press 2 > if you want the information of a single person'
 @ 8,5 say 'Press 3 > if you want to return to  previous menu'
 @ 10,5 say 'Enter your choice' get which
 read
 do case
  case which= '1'
   do aflag1
  case which= '2'
   do aflag2
  case which= '3'
   clea
   EXIT
 ENDcase
 WHICH = ' '
ENDDO
RELE WHICH
retu
```

```
********datamenu command file*********
***FOR THE MENU OF DIFFERENT OPTIONS
****USED IN ENTRY,UPDATE,DELETE PROGRAMS
CLEA
set talk off
PUBLIC fname,ff
CLOSE DATABASES
HELLO = .t.
do while HELLO
 fname= ' '
 @ 2,16 say 'DATA RECORD'
 IF TEM1 = '1'
  SET COLO TO *W
 ENDIF
 @ 2,28 SAY 'ENTRY,'
 IF TEM1 = '1'
  SET COLO TO W
 ENDIF
 IF TEM1 = '3'
  SET COLO TO *W
 ENDIF
 @ 2,34 SAY 'UPDATION,'
 SET COLO TO W
 IF TEM1 = '2'
  SET COLO TO *W
 ENDIF
 @ 2,43 SAY 'DELETION '
 SET COLO TO W
 @ 2,52 SAY 'SELECTION;
 MENU'
 @ 3,10 TO 21,70 DOUBLE
 @ 5,25 SAY '1--BASIC INFORMATION'
 @ 7,25 SAY '2--EDUCATIONAL INFORMATION'
 @ 9,25 SAY '3--TRAINING INFORMATION'
 @ 11,25 SAY '4--EXPERIENCE INFORMATION'
 @ 13,25 SAY '5--MEMBERSHIP INFORMATION'
 @ 15,25 SAY '6--PROMOTIONAL INFORMATION'
 @ 19,25 SAY 'PRESS <RETURN> TO COME BACK TO PREVIOUS MENU'
 @ 20,25 SAY 'CHOOSE A NO. OR PRESS <RETURN> ' GET FNAME
 READ
 SELE 1
 DO CASE
  CASE FNAME= '1'
   FF= 'BASIC INFORMATION FILE'
   USE BASINF INDE BASINF
   HELLO = .F.
  CASE FNAME='2'
   FF='EDUCATIONAL INFORMATION FILE'
   USE EUDINF INDE EUDINF
   HELLO = .F.
  CASE FNAME= '3'
   FF='TRAINING INFORMATION FILE'
   USE TRAININF INDE TRAININF
   HELLO =.F.
  CASE FNAME= '4'
   FF='EXPERIENCE INFORMATION FILE'
   USE EXPERINF INDE EXPERINF
   HELLO=.F.
  CASE FNAME= '5'
   FF= 'MEMBERSHIP INFORMATION FILE'
   USE MEMBERINF INDE MEMBERINF
   HELLO = .F.
  CASE FNAME='6'
   FF='PROMOTIONAL INFORMATION FILE'
   USE PROMINF INDE PROMINF
   HELLO = .F.
```

```
   CASE FNAME = ' '
    CLEAR
    RETU
  ENDCASE
ENDDO
CLEA
RETU
```

```
**********del1 command file*****************
***for the deletion of a record whole or specific
set talk off
set echo oFF
CLOSE DATABASES
clea
do datamenu
if .NOT. fname $ '123456'
 close data
 retu
endif
clear
go top
if eof()
 ? 'There are no records in the file'
 wait to await
 close data
 RETU
ENDIF
one= 'Y'
do while upper(one)='Y'
 clea
 SELE 1
 count to a
 @7,5 say 'There are '+str(a,5)+' records in the file'
 idn=space(5)
 es=space(1)
 @10,0 say 'Enter the identification no. : ' get idn
 @12,0 say 'and the Employee Sector code : ' get es
 read
 clea
 idn=upper(idn)
 idn=trim(idn)
 if fname='1'
  FIND &idn
  r=0
  clear
  if .NOT. EOF()
   do while idno=idn
    if emp_code=es
     r=recno()
     exit
    endif
    skip
   enddo
  endif
 else
  r=0
  clear
  do case
   case fname='2'
    disp all fields idno,emp_code,q_year,q_board,q_div,;
 q_rank,q_course,subject1 for (idno=idn .and. emp_code=es)
   case fname= '3'
    disp all fields idno,emp_code,t_code,t_name,t_level,t_country;
   for (idno=idn .and. emp_code=es)
   case fname='4'
    disp all fields idno,emp_code,desig_code,per_from,per_to;
    for (idno=idn .and. emp_code=es)
   case fname='6'
    disp all fields idno,emp_code,natofpost,specify,same_ot;
 for (idno=idn .and. emp_code=es)
   case fname='5'
    disp all fields idno,emp_code,prof_body1,publ_det1;
 for (idno=idn .and. emp_code=es)
```

```
 count all for (idno=idn .and. emp_code=es) to aaa
 if .not. aaa = 0
  r=space(5)
  @21,0 say ' Enter record no. from displayed above which;
you want to delete'
  @22,0 get r
  read
  r=val(r)
 endif
endif
if .not. r=0
 clea
 do case
  case fname = '1'
   disp off record r fields lastname,firstname,d_of_birth,idno
  case fname='2'
   disp off reco r fields idno,emp_code,q_year,q_board,q_div,;
q_rank
  case fname= '3'
   disp off reco r fields idno,emp_code,t_code,t_name,t_level,t_country
  case fname='4'
   disp off reco r fields idno,emp_code,desig_code,per_from,per_to
  case fname='6'
   disp off reco r fields idno,emp_code,natofpost,specify,same_ot
  case fname='5'
   disp off reco r fields idno,emp_code,prof_body1,publ_det1
 endcase
else
 clea
 ? ' This record does not exist'
 ?
 ? 'Do you want to change (Y or N)'
 one = ' '
 do while .not. (upper(one) $ 'YN')
  @10,0 say 'Enter your choice' get one
  read
 enddo
 loop
endif
answer = ' '
do while .not. (upper(answer) $ 'YN')
 @15,10 say 'Is it the record you want to delete(Y or N)'
 @15,col()+3 get answer
 read
enddo
if .not. upper(answer) = 'Y'
 clea
 one=' '
 do while .not. (upper(one) $ 'YN')
  @10,10 say 'Do you want to try again (Y or N)'
  @10,col()+1 get one
  read
 enddo
 loop
else
 delete record r
 pack
endif
if fname='1'
 sele 2
 use eudinf inde eudinf
 dele all for (idno=idn .and. emp_code=es)
 pack
 use traininf inde traininf
 dele all for (idno=idn .and. emp_code=es)
 pack
 use experinf inde experinf
 dele all for (idno=idn .and. emp_code=es)
 pack
 use prominf inde prominf
 dele all for (idno=idn .and. emp_code=es)
 pack
```

```
  use memberinf index memberinf
  dele all for (idno=idh .and. emp_code=es)
  pack
 endif
 one=' '
 clea
 do while .not. (upper(one) $ 'YN')
  @10,0 say 'Do you want to delete more records of the same ;
file (Y or N)'
  @11,10 say 'Enter your choice : ' get one
  read
 enddo
 clea
enddo
clea
close all
do rein
rele one,which
return
```

```
**********direct command file**********
***FOR THE LISTING OF DIRECTORIES USED IN THE SYSTEM
***A MODULE OF THE PESB PROGRAM
SET TALK OFF
CLOSE ALL
do while .t.
 clear
 which =' '
 @2,15 say 'LISTING OF CODES DIRECTORIES'
 @3,15 SAY 'Enter: which directory listing you want?'
 @4,20 say '1---> for Country codes'
 @5,20 say '2---> for Course codes'
 @6,20 say '3---> for Designation codes'
 @7,20 say '4---> for Division code'
 @8,20 say '5---> for Ex-serviceman code'
 @9,20 say '6---> for Field of specialisation codes'
 @10,20 say '7---> for Language codes (other than English)'
 @11,20 say '8---> for Level of training/course codes'
 @12,20 say '9---> for Marital status code'
 @13,20 say '10---> for Nature of training course codes'
 @14,20 say '11---> for Proficiency code (read/write/speak)'
 @15,20 say '12---> for Qualification codes'
 @16,20 say '13---> for Scale of pay codes'
 @17,20 say '14---> for SC/ST/Others code'
 @18,20 say '15---> for Sex code'
 @19,20 say '16---> for Subject codes'
 @20,20 say '<return>---> to come to previous menu '
 @21,20 say 'enter your choice' get which PICT '99'
 read
 which=val(which)
 IF WHICH=0
  RELE WHICH
  CLEA
  EXIT
 ENDIF
 CLEA
 DO WHILE .T.
  ANS=' '
  @10,10 SAY 'DO YOU WANT IT ON PRINTER ? (Y or N) : ' GET ANS
  READ
  IF UPPE(ANS) $ 'YN'
   EXIT
  ENDIF
 ENDDO
 IF UPPE(ANS) = 'Y'
  SET PRINT ON
 ENDIF
 RELE ANS
 do case
  case which =1
   use country inde country
   ? 'LIST OF COUNTRY CODES'
   ? '---------------------'
   LIST
  case which=2
   use COUR inde COUR
   ? 'LIST OF COURSE CODES'
   ? '--------------------'
   LIST
  case which=3
   use desig inde desig
   ? 'LIST OF DESIGNATION CODES'
   ? '-------------------------'
   LIST
  case which=4
   use DIVS inde DIVS
```

```
 ? 'LIST OF DIVISION CODE'
 ? '-----------------------'
 LIST
case which=5
 use EXSER inde EXSER
 ? 'LIST OF EX-SERVIVEMAN CODE'
 ? '-------------------------'
 LIST
case which=6
 use FOFSP inde FOFSP
 ? 'LIST OF FIELD OF SPECIALISATIONCODES'
 ? '-----------------------------------'
 LIST
case which=7
 use LANGUAGE inde LANGUAGE
 ? 'LIST OF LANGUAGE CODES'
 ? '----------------------'
 LIST
case which = 8
 use levtrain inde levtrain
 ? 'LIST OF LEVEL OF TRAINING/COURSE CODES'
 ? '--------------------------------------'
 LIST
case which=9
 use MAR inde MAR
 ? 'LIST OF MARITAL STATUS CODE'
 ? '--------------------------'
 LIST
case which=10
 use TRAIN inde TRAIN
 ? 'LIST OF NATURE OF TRAINING COURSE CODES'
 ? '---------------------------------------'
 LIST
case which = 11
 use REAX inde REAX
 ? 'LIST OF PROFICIENCY CODE (READ/WRITE/SPEAK)'
 ? '-------------------------------------------'
 LIST
case which = 12
 use QUAL inde QUAL
 ? 'LIST OF QUALIFICATION CODES'
 ? '--------------------------'
 LIST
CASE WHICH = 13
 USE SCALE INDE SCALE
 ? 'LIST OF SCALE OF PAY CODES'
 ? '-------------------------'
 LIST
CASE WHICH = 14
 USE SCHEDU INDE SCHEDU
 ? 'LIST OF SC/ST/OTHERS CODE'
 ? '-------------------------'
 LIST
CASE WHICH = 15
 USE SEX INDE SEX
 ? 'LIST OF SEX CODE'
 ? '---------------'
 LIST
CASE WHICH = 16
 USE SUBJECT INDE SUBJECT
 ? 'LIST OF SUBJECT CODES'
 ? '---------------------'
 LIST
endcase
SET PRINT OFF
WAIT
enddo
RETU
```

```
********EAUPmenu COMMAND FILE******
***FOR THE MENU OF ENTRY, UPDATE, DELETE
***A MODULE OF PESB PROGRAM
***THE PASSAGE IS RESTRICTED THRU PASSWORD
****THE PASSWORD IS PISPESB
CLEA
CLOSE ALL
PUBL TEM1,IDEA
PAS=SPACE(15)
SET COLO TO +*W
@ 10,10 SAY ' ENTER THE P A S S W O R D  HERE AND PRESS <RETURN>'
SET CONS OFF
ACCE TO PAS
PAS = UPPER(PAS)
DO WHILE PAS <> 'PISPESB'
 CLEA
 SET COLO TO W
 @ 12,10 SAY 'PASSWORD INCORRECT'
 TRY= ' '
 DO WHILE .NOT. (UPPER(TRY)$ 'YN')
  @ 15,10 SAY 'DO YOU WANT TO TRY AGAIN?' GET TRY PICT 'A'
  READ
  TRY=UPPER(TRY)
 ENDDO
 IF TRY= 'N'
  CLEAR
  CLOSE DATABASES
  RETU
 ELSE
  CLEA
  PAS = SPACE(15)
  SET COLO TO +*W
  @ 10,10 SAY 'ENTER THE PASSWORD AND PRESS <RETURN>'
  SET CONS OFF
  ACCE TO PAS
  SET CONS ON
  SET COLO TO W
  PAS = UPPER(PAS)
 ENDIF
ENDDO
set colo to w
set cons on
clea
run date
clea
IDEA = ' '
TEM1=' '
DO WHILE .NOT. IDEA $  '1234'
 IDEA = ' '
 @ 1,10 TO 17,55 DOUBLE
 @ 3,20 SAY 'ENTRY AND UPDATE MENU'
 @ 5,20 SAY '1 ----- ENTER  A RECORD'
 @ 7,20 SAY '2 ----- DELETE A RECORD'
 @ 9,20 SAY '3 ----- UPDATE A RECORD'
 @ 12,20 SAY '4 ----- TO COME BACK TO MAIN MENU'
 @ 15,20 GET IDEA
 READ
 TEM1 = '&IDEA'
 DO CASE
  CASE IDEA = '3'
   DO UPDATE3
  CASE IDEA= '2'
   DO DEL1
  CASE IDEA= '1'
   DO ENTER3
  CASE IDEA = '4'
```

```
    RETU
  ENDCASE
  IF .NOT. TEM1 = '1'
    IDEA=' '
  ENDIF
ENDDO
RETU
```

```
**********************ech1 command file************************
***A MODULE OF ECHA PROGRAM
SET TALK OFF
SET DATE BRIT
clear
@1,35 say 'BASIC INFORMATION RECORD'
SET COLO TO W
@1,0 SAY TIME()
@1,11 SAY 'RECNO:'+STR(R,5)
@1,70 SAY DATE() PICT '@E'
@2,0 TO 20,78 DOUBLE
@3,5 SAY 'EMPLOYEE SECTOR CODE:'+ESC
@3,30 SAY 'IDENTIFICATION NO.:'+ID
@5,30 SAY 'DATE:'
@5,36 SAY DOFR
@7,10 SAY 'SHRI/SMT/KUM/DR/MILITARY RANK:'+RK
@9,10 SAY 'LAST NAME:'+LN
@11,10 SAY 'FIRST & MIDDLE NAME:'+OT
@13,10 SAY 'D_OF_BIRTH(DD/MM/YY):'
@13,30 SAY DOFB
@15,10 SAY 'SEX CODE:'+SEX
@15,30 SAY 'MARITAL STATUS:'+MAR
@15,50 SAY 'NO. OF CHILDREN:'+NOC
@17,10 SAY 'PRESENT ADDRESS:'+PREA
@19,10 SAY '          PIN CODE:'+PREPIN
@19,40 SAY 'PRESENT PHONE:'+PREP
@3,27 GET ESC PICT '9'
@3,60 GET ID PICT '99999'
@5,36 GET DOFR PICT 'E'
@7,40 GET RK PICT '@X'
@9,20 GET LN PICT '@A'
@11,31 GET OT PICT '@X'
@13,30 GET DOFB PICT 'E'
@15,19 GET SEX PICT '9'
@15,45 GET MAR PICT '9'
@15,67 GET NOC  pict '9'
@17,28 GET PREA
@19,28 GET PREPIN pict '999999'
@19,55 GET PREP PICT '9999999'
READ
CLEA
@1,35 SAY 'BASIC INFORMATION RECORD'
SET COLO TO W
@1,0 SAY TIME()
@1,10 SAY 'RECNO:'+STR(R,5)
@1,70 SAY DATE()
@2,0 TO 20,78 DOUBLE
@3,10 SAY 'PERMANENT ADDRESS:'+PERA
@6,10 SAY '             PIN CODE:'+PERPIN
@6,40 SAY 'PERMANENT PHONE:'+PERP
@8,10 SAY 'SC / ST /OTHER:'+COM
@8,30 SAY 'EX_SERVICEMAN:'+EXS
@10,10 SAY 'DESIGNATION:'+DES
@12,10 SAY 'DEPARTMENT:'+DEP
@14,10 SAY 'BASIC PAY:'+BPAY
@14,30 SAY 'DATE:'
@14,36 SAY DOFD
@16,10 SAY 'LANGUAGE1:'+OL1
@16,25 SAY 'READ:'+R1
@16,32 SAY 'WRITE:'+W1
@16,40 SAY 'SPEAK:'+S1
@17,10 SAY 'LANGUAGE2:'+OL2
@17,25 SAY 'READ:'+R2
@17,32 SAY 'WRITE:'+W2
@17,40 SAY 'SPEAK:'+S2
```

```
@18,25 SAY 'READ:'+R3
@18,32 SAY 'WRITE:'+W3
@18,40 SAY 'SPEAK:'+S3
@19,10 SAY 'LANGUAGE4:'+OL4
@19,25 SAY 'READ:'+R4
@19,32 SAY 'WRITE:'+W4
@19,40 SAY 'SPEAK:'+S4
@3,30 GET PERA PICT '@X'
@6,30 GET PERPIN PICT '999999'
@6,57 GET PERP PICT '9999999'
@8,25 GET COM PICT '9'
@8,45 GET EXS PICT '9'
@10,25 GET DES
@12,25 GET DEP
@14,22 GET BPAY
@14,36 GET DOFD PICT 'E'
@16,20 GET OL1 PICT '99'
@16,30 GET R1 PICT '9'
@16,38 GET W1 PICT '9'
@16,46 GET S1 PICT '9'
@17,20 GET OL2 PICT '99'
@17,30 GET R2 PICT '9'
@17,38 GET W2 PICT '9'
@17,46 GET S2 PICT '9'
@18,20 GET OL3 PICT '99'
@18,30 GET R3 PICT '9'
@18,38 GET W3 PICT '9'
@18,46 GET S3 PICT '9'
@19,20 GET OL4 PICT '99'
@19,30 GET R4 PICT '9'
@19,38 GET W4 PICT '9'
@19,46 GET S4 PICT '9'
READ
@20,0 CLEAR
publ ESCQ1,IDQ1
ESCQ1=ESC
IDQ1=ID
LN=UPPER(LN)
SELE 1
USE BASINF INDE BASINF
GO R
ID = TRIM(ID)
REPLACE EMP_CODE WITH ESC,;
     IDNO WITH ID,;
     DOFRECPT WITH DOFR,;
     SSKM WITH RK
REPL LASTNAME WITH LN,;
     FIRSTNAME WITH OT,;
     D_OF_BIRTH WITH DOFB,;
     SEXCODE WITH SEX
REPL MARSTATUS WITH MAR,;
     NO_OF_CHIL WITH NOC,;
     PRE_ADDR WITH PREA,;
     PRE_PIN WITH PREPIN,;
     PRE_PHONE WITH PREP
REPL PER_ADDR WITH PERA,;
     PER_PIN WITH PERPIN,;
     PER_PHONE WITH PERP,;
     SCSTOT WITH COM,;
     EXSERMAN WITH EXS
REPL DESIGNATIO WITH DES,;
     DEPARTMENT WITH DEP,;
     BASICPAY WITH BPAY,;
     DOOFDRAWN WITH DOFD
REPL LANGUAGE1 WITH OL1,;
     LANGUAGE2 WITH OL2,;
     LANGUAGE3 WITH OL3,;
     LANGUAGE4 WITH OL4
REPL RI1 WITH R1,;
     RI2 WITH R2,;
     RI3 WITH R3,;
     RI4 WITH R4
```

```
REPL WI1 WITH W1,;
     WI2 WITH W2,;
     WI3 WITH W3,;
     WI4 WITH W4
REPL SI1 WITH S1,;
     SI2 WITH S2,;
     SI3 WITH S3,;
     SI4 WITH S4
CLEAR
RETURN
```

```
*****************ECH2 COMM FILE*********************
***A MODULE OF ECHB PROGRAM
set date brit
@3,32 say 'Educational Information record'
set colo to w
@3,0 say time()
@3,10 say 'rec.no '+str(r,5)
@3,72 say date() pict '@e'
@4,0 say repl('-',75)
@6,10 say 'Employee sector_code:'+esc
@6,40 say 'Identification no.:'+id
@8,10 say 'Qualification code:'+qual
@8,50 say 'Year:'+yr
@10,10 say 'Institution:'+inst
@12,10 say 'Division:'+div
@12,35 say 'Rank:'+rnk
@12,50 say 'Course:'+cour
@14,10 say 'Subject1:'+sub1
@14,40 say 'Subject2:'+sub2
@16,10 say 'Subject3:'+sub3
@16,40 say 'Subject4:'+sub4
@18,10 say 'Field of Specialization:'+fofsp
@19,0 say repl('-',75)
if idea='3' .and. fname='1'
 @6,32 say ESCQ1
 @6,60 say IDQ1
 id=IDQ1
 esc=ESCQ1
else
 sele 2
 do while .t.
  @6,32 get esc pict '9'
  read
  if esc=' '
   @21,0 say 'ERROR: YOU MUST ENTER CORRECT EMP SECTOR CODE'
   LOOP
  ELSE
   gq='1'
   @21,0 CLEA
   DO WHILE .T.
    @6,60 GET ID PICT '99999'
    READ
    IF ID=' '
     @21,0 SAY 'ERROR : YOU MUST ENTER IDNO.'
     LOOP
    ELSE
     @21,0 clear
     use basinf inde basinf
     find &ID
     if .NOT. EOF()
      copy to tepy while IDNO = ID
      use tepy
      locate for EMP_CODE = ESC
      if .NOT. EOF()
       close databases
       erase tepy.dbf
       exit
      endif
      @21,0 say 'ERROR : ENTER CORRECT ID. NO. + SEC. CODE'
      close databases
      erase tepy.dbf
      gq='2'
      exit
     else
      @21,0 say 'ERROR: ENTER CORRECT ID.NO. + EMP.SEC.CODE'
      gq='2'
```

```
      exit
     endif
    ENDIF
   ENDDO
   if gq='2'
    loop
   endif
   EXIT
  ENDIF
 ENDDO
ENDIF
@21,0 CLEA
@8,30 get QUAL
@8,55 get YR pict '99'
@10,23 GET INST
@12,20 GET DIV PICT '9'
@12,40 GET RNK
@12,57 GET COUR
@14,20 GET SUB1
@14,50 GET SUB2
@16,20 GET SUB3
@16,50 GET SUB4
@18,35 GET FOFSP PICT '99'
READ
SUB1=UPPE(SUB1)
SUB2=UPPE(SUB2)
SUB3=UPPE(SUB3)
SUB4=UPPE(SUB4)
SELE 1
USE EUDINF inde EUDINF
GO R
id=trim(id)
REPLACE EMP_CODE WITH ESC,;
        IDNO WITH ID,;
        QUALIFICAT WITH QUAL,;
        Q_YEAR WITH YR
REPL Q_BOARD WITH INST,;
     Q_DIV WITH DIV,;
     Q_RANK WITH RNK,;
     Q_COURSE WITH COUR
REPL SUBJECT1 WITH SUB1,;
     SUBJECT2 WITH SUB2,;
     SUBJECT3 WITH SUB3,;
     SUBJECT4 WITH SUB4
REPL FI_OF_SPEC WITH FOFSP
CLEA
RETU
```

```
**********************ech3 command file**************************
***A MODULE OF ENTA PROGRAM
SET TALK OFF
SET ECHO OFF
@3,35 say  'Training Information Record'
set colo to w
@3,10 say time()
@3,20 say 'rec.no:'+str(r,5)
@3,72 say date()
@4,0 say repl('-',75)
@6,10 say 'Employee Sector Code:'+esc
@6,40 say 'Identification No:'+id
@8,10 say 'Nature of Training Course:'+trcor
@10,10 say 'Name of Training:'+ntrcor
@12,10 say 'Level of Course:'+ltrcor
@12,30 say 'Name of country:'+countr
@14,10 say 'Name of institution:'+institu
@16,10 say 'Duration of Training:'+dur
@16,40 say 'Year of Training:'+Yer
@17,0 say repl('-',75)
if idea='3' .and. fname='1'
 @6,32 say ESCQ1
 @6,60 say IDQ1
 id=IDQ1
 esc=ESCQ1
else
 sele 2
 DO WHILE .T.
  esc=' '
  do while .not. esc $ '1234'
   esc= ' '
   @6,32 get esc pict '@9'
   read
  enddo
  GO='1'
  do while .t.
   @6,60 get id pict '99999'
   read
   if id=' '
    @21,0 say 'You must enter identification no.'
    loop
   else
    @ 21,0 clear
    use basinf inde basinf
    find &id
    if .NOT. EOF()
     copy to tepy while IDNO = id
     use tepy
     locate for EMP_CODE = esc
     if .NOT. EOF()
      close databases
      erase tepy.dbf
      exit
     endif
     @21,0 say 'ERROR : ENTER CORRECT ID.NO. + EMP.SEC.CODE'
     close databases
     erase tepy.dbf
     GO='2'
     EXIT
    else
     @21,0 say 'ERROR: ENTER CORRECT ID.NO. + EMP.SEC.CODE'
     GO='2'
     EXIT
    endif
   endif
  enddo
```

```
  IF go='2'
   LOOP
  ENDIF
  EXIT
 ENDDO
endif
@21,0 clea
@8,47 get trcor '99'
@10,40 get ntrcor
@12,27 get ltrcor
@12,47 get countr pict '999'
@14,32 get institu
@16,35 get dur pict '99'
@16,59 get yer pict '99'
read
sele 1
use traininf inde traininf
id=trim(id)
go r
repl idno with id,;
     emp_code with esc,;
     t_code with trcor,;
     t_name with ntrcor,;
     t_level with ltrcor,;
     t_country with countr
repl t_institu with institu,;
     t_duratio with dur,;
     t_year with yer
clea
retu
```

```
*****************ech4 command file*****************
***A MODULE OF THE ECHD PROGRAM
SET TALK OFF
CLEA
@3,35 say ' EXPERIENCE INFORMATION RECORD '
SET COLO TO W
@3,10 say time()
@3,20 say 'rec.no:'+str(r,5)
@3,72 say date()
@4,0 say repl('-',76)
@6,10 say 'Employee Sector Code:'+esc
@6,40 say 'Identification No:'+id
@8,10 say 'designation:'+desi
@8,30 say 'Place of Posting:'+profp
@10,10 say 'Name of Organisation:'+nofo
@12,10 say 'Field of Experience:'+fofe
@14,10 say 'Period from (mm yy):'
@14,40 say 'Period to (mm yy):'
@16,10 say 'Scale of pay    :'+SCPAY
@17,10 say 'Reporting level:'+REPLE
@18,10 say 'Reason for change:'+rch
@19,10 say 'Responsibilities:'+resp
@20,10 say 'Achievements:'+ach
@21,0 say repl('-',76)
if idea = '3' .AND. FNAME='1'
 @6,30 SAY ESCQ1
 @6,58 SAY IDQ1
 id=IDQ1
 esc=ESCQ1
else
 sele 2
 DO WHILE .T.
  esc=' '
  do while .not. esc $ '1234'
   esc=' '
   @6,30 get esc pict '@9'
   read
  enddo
  GO='1'
  do while .t.
   @6,58 get id
   read
   if ID='      '
    @22,0 say 'ERROR: YOU MUST ENTER CORRECT IDNO'
    loop
   else
    @22,0 clear
    use basinf inde basinf
    find &id
    if .NOT. EOF()
     copy to tepy while IDNO = id
     use tepy
     locate for EMP_CODE = esc
     if .NOT. EOF()
      close databases
      erase tepy.dbf
      exit
     endif
     @22,0 say 'ERROR: ENTER CORRECT ID.NO. + EMP.SEC.CODE'
     close databases
     erase tepy.dbf
     GO='2'
     EXIT
    else
     @22,0 say 'ERROR: ENTER CORRECT ID.NO. + EMP.SEC.CODE'
```

```
    EXIT
    endif
   endif
  enddo
  IF GO='2'
   LOOP
  ENDIF
  EXIT
 ENDDO
endif
@22,0 CLEA
@8,22 get desi
@8,47 get profp
@10,32 get nofo
@12,30 get fofe PICT '99'
@14,30 get PFROM PICT '9999'
@14,63 get PTO PICT '9999'
@16,24 get scpay
@17,30 get reple
@18,29 get rch
@19,28 get resp
@20,24 get ach
read
id=trim(id)
sele 1
use experinf inde experinf
go r
repl idno with id,;
     emp_code with esc,;
     desig_code with desi,;
     na_of_org with nofo
REPL pl_of_post with profp,;
     fi_of_exp with fofe,;
     per_from with pfrom,;
     per_to with pto
repl repo_level with reple,;
     scale_code with scpay,;
     responsib with resp,;
     RECH WITH RCH,;
     achieve with ach
CLEA
retu
```

```
*****************ch5 COMM FILE*********************
***A MODULE OF THE ECHE PROGRAM
CLEA
SET TALK OFF
SET ECHO OFF
@5,35 say 'MEMBERSHIP INFORMATION RECORD '
set colo to w
@5,10 say time()
@5,20 say 'rec.no:'+str(r,5)
@5,72 say date()
@6,0 say repl('-',76)
@10,10 say 'Employee Sector Code:'+esc
@11,10 say 'Identification no.:'+id
@13,10 say 'Name of Professional Body:'+nofp
@15,10 say 'Publication details:'+nd
@18,0 say repl('-',76)
if idea='3' .and. fname='1'
 @10,32 SAY ESCQ1
 @11,30 say IDQ1
 id=IDQ1
 esc=ESCQ1
else
 sele 2
 DO WHILE .T.
  esc=' '
  do while .not. esc $ '1234'
   esc=' '
   @10,32 get esc pict '@9'
   read
  enddo
  GQ='1'
  do while .t.
  @11,30 get id pict '@99999'
   read
   if id=' '
    @21,20 say 'You must enter identification Code'
    loop
   else
    @21,0 clear
    use basinf inde basinf
    find &id
    if .NOT. EOF()
     copy to tepy while IDNO = id
     use tepy
     locate for EMP_CODE = esc
     if .NOT. EOF()
      close databases
      erase tepy.dbf
      exit
     endif
     @21,0 say 'ERROR: ENTER CORRECT ID.NO. + EMP.SEC.CODE'
     close databases
     erase tepy.dbf
     GQ='2'
     EXIT
    else
     @21,0 say 'ERROR: ENTER CORRECT ID.NO. + EMP.SEC.CODE'
     GQ='2'
     EXIT
    endif
   endif
  enddo
  IF GQ='2'
   LOOP
  ENDIF
  EXIT
```

```
 ENDDO
endif
@20,0 clear
@13,37 get nofp
@15,31 get nd
read
sele 1
use memberinf inde memberinf
go r
id=trim(id)
repl  emp_code with esc,;
      idno with id,;
      prof_body1 with nofp,;
      publ_det1 with nd
clea
retu
```

```
*****************ech6 command file***************
***a module of the echf program
@5,35 say 'PROMOTIONAL INFORMATION RECORD'
SET COLO TO W
@5,10 SAY TIME()
@5,20 SAY 'REC.NO:'+STR(R,5)
@5,73 SAY DATE()
@6,0 SAY REPL('-',76)
@8,10 SAY 'Employee Sector Code:'+esc
@10,10 say 'Identification No.:'+id
@12,10 say 'Nature of Post:'+nofpo
@14,10 say 'If Specific, specify Name:'+spname
@16,10 say 'Same or other:'
@18,0 say repl('-',76)
if idea='3'.and. fname='1'
 @8,32 say ESCQ1
 @10,30 say IDQ1
 id=IDQ1
 esc=ESCQ1
else
 sele 2
 DO WHILE .T.
  esc=' '
  do while .not. esc $ '1234'
   esc=' '
   @8,32 get esc pict '9'
   read
  enddo
  GO='1'
  do while .t.
   @10,30 get id pict '99999'
   read
   if id= ' '
    @21,20 say 'Error: You must enter correct Identifcation no'
    loop
   else
    @21,0 CLEAR
    use basinf inde basinf
    find &id
    if .NOT. EOF()
     copy to tepy while IDNO = id
     use tepy
     locate for EMP_CODE = esc
     if .NOT. EOF()
      close databases
      erase tepy.dbf
      exit
     endif
     @21,0 say 'ERROR: ENTER CORRECT ID.NO. + EMP.SEC.CODE'
     close databases
     erase tepy.dbf
     GO='2'
     EXIT
    else
     @21,0 say 'ERROR: ENTER CORRECT ID.NO. + EMP.SEC.CODE'
     GO='2'
     EXIT
    endif
   endif
  enddo
  IF GO='2'
   LOOP
  ENDIF
  EXIT
 ENDDO
```

```
@21,0 clea
@12,30 get nofpo PICT '9'
@14,40 get spname
@16,25 get anyot pict '9'
read
clear
@1,10 say 'Experience and Background:' get dbe
@10,10 say 'Any other Remarks:' get arem
read
clea
@1,10 say 'Reference 1:' get refe1
@5,10 say 'Reference 2:' get refe2
read
CLEA
sele 1
use prominf inde prominf
id=trim(id)
go r
repl idno with id,;
     emp_code with esc
repl specify with spname,;
     desp_exp with dbe,;
     remarks with arem,;
     ref1 with refe1
repl ref2 with refe2,;
     natofpost with nofpo,;
     emp_code with esc,;
     same_ot with anyot
return
```

```
**************echa command file****************
***FOR ENTRY IN THE BASINF FILE
CLEA
set stat off
set talk oFF
esc=' '
id=space(5)
DOFR=CTOD("  /  /  ")
rk=space(15)
ln=space(20)
oT=space(30)
STORE ctod('  /  /  ') to dofb,date
sex=' '
mar=' '
noc=' '
prea=space(80)
PREPIN=SPACE(6)
prep=space(7)
pera=space(80)
PERPIN=SPACE(6)
perp=sPace(7)
com=' '
exs=' '
des=space(5)
dep=space(25)
bpay=space(5)
dofd=ctod('  /  /  ')
store space(2) to ol1,ol2,ol3,ol4,ol5
store space(1) to r1,r2,r3,r4,r5
store space(1) to w1,w2,w3,w4,w5,s1,s2,s3,s4,s5
r=recno()
do ech1
retu
```

```
*******echb command file********
***FOR ENTRY IN THE EUDINF FILE
SET TALK OFF
SET ECHO OFF
esc=' '
id=space(5)
qual=space(2)
yr=space(2)
inst=space(25)
div=space(1)
rnk=space(3)
cour=space(2)
sub1=space(3)
sub2=space(3)
sub3=space(3)
sub4=space(3)
fofsp=space(2)
r=recno()
do ech2
retu
```

```
******echc command file******
***FOR THE ENTRY IN THE BASINF FILE
set talk oFF
SET ECHO OFF
esc= ' '
id='      '
trcor=space(2)
ntrcor=space(25)
1trcor='  '
countr = '   '
institu=space(25)
dur=space(2)
yer=space(2)
r=recno()
do ech3
retu
```

---------- PROGRAM NUMBER : 25 ---------- FOR PESB

```
**********echd command file******
***FOR THE ENTRY IN EXPERINF FILE
esc=' '
id=space(5)
desi=space(5)
profp=space(25)
nofo=space(25)
fofe=space(2)
pfrom=0
pto=0
replE=space(15)
scpay=space(2)
rch=space(50)
resp=space(50)
ach=space(50)
r=recno()
do ech4
retu
```

```
**********eche command file*******
***FOR ENTRY IN MEMBERINF FILE
set talk oFF
esc = ' '
id = space(5)
nofp = space(25)
nd = space(80)
r = recno()
do ech5
retu
```

```
**********echf command file******
***FOR ENTRY IN PROMINF FILE
SET TALK OFF
SET ECHO OFF
esc=' '
id=space(5)
nofpo=space(1)
spname=space(25)
anyot=space(1)
dbe=space(100)
arem=space(100)
refe1=space(100)
refe2=space(100)
r=recno()
do ech6
retu
```

```
**********************ENTER3 COMM FILE*****************************
***FOR ENTRY OF A WHOLE RECORD OR A SPECIFIC ONE
clea
do datamenu
if fname= ' '
 retu
endif
clea
COUNT TO RNO
RNO=RNO+1
SELE 6
USE VALIDN
REPL FNAM WITH FNAME,;
     RECN WITH RNO,;
     FLGG WITH .T.
SELE 1
entry= 'Y'
do while upper(entry)= 'Y'
 appe blank
 idea='3'
 do case
  case fname= '1'
   do echa
  case fname = '2'
   do echb
  case fname='3'
   do echc
  case fname='4'
   do echd
  case fname= '5'
   do eche
  case fname= '6'
   do echf
 endcase
 if fname = '1'
  clea
  RFQ=' '
  @10,0 SAY 'DO YOU WANT TO ENTER EDUCATION RECORD(S) FOR THE SAME NAME ?
  READ
  IF upper(RFQ)='Y'
   sele 1
   use eudinf inde eudinf
   ii= 'echb'
   jj= 'do you want to enter more education records (Y or N) '
   DO MIGI
  ENDIF
  CLEAR
  RFQ=' '
  @10,0 SAY 'DO YOU WANT TO ENTER TRAINING RECORD(S) FOR THE SAME NAME ?
  READ
  IF uppe(RFQ)='Y'
   SELE 1
   USE TRAININF INDE TRAININF
   ii='echc'
   jj='do you want to enter more training records (Y or N)'
   do migi
  ENDIF
  CLEA
  RFQ=' '
  @10,0 SAY 'DO YOU WANT TO ENTER EXPERIENCE RECORD(S) FOR THE SAME NAME
  READ
  IF uppe(RFQ)='Y'
   SELE 1
   USE experinf INDE EXPERINF
   ii='echd'
```

```
   do migi
  ENDIF
  CLEA
  RFQ=' '
  @10,0 SAY 'DO YOU WANT TO ENTER MEMBERSHIP RECORD(S) FOR THE SAME NAME
  READ
  IF uppe(RFQ)='Y'
   sele 1
   use memberinf inde memberinf
   ii='eche'
   jj='Do you want to enter more membership records (Y or N)'
   do migi
  ENDIF
  clear
  rf=' '
  do while .not. (upper(rf) $ 'YN')
   @10,0 say 'Do you want to enter any Promotional record(Y or N)'
   @10,col()+1 get rf
   read
   if upper(rf)='Y'
    sele 1
    use prominf inde prominf
    ii='echf'
    jj='Do you want to enter more promotional records (Y or N)'
    do migi
   endif
   clea
  enddo
 ENDIF
 entry=' '
 do while .not. (upper(entry) $ 'YN')
  @10,10 say 'MORE RECORDS (for entry in the same file) ? ' GET ENTRY
  read
 enddo
 CLEA
 if upper (entry) = 'N'
  close all
  retu
 else
  sele 1
  if fname= '1'
   sele 2
   use
   sele 1
   use basinf inde basinf
  endif
 endif
enddo
CLEA
retu
```

```
**********INPV2 COMM FILE**********
***FOR THE VALIDATION OF THE EUDINF FILE
***A MODULE OF THE VALIDATE PROGRAM
clea
sele 4
use EUDINF
GO RENO
@10,10 SAY 'VALIDATING THE EDUCATIONAL FILE'
set devi to prin
@1,40 SAY '****************************************'
@PROW()+1,40 SAY '*    PERSONNEL INFORMATION SYSTEM    *'
@PROW()+1,40 SAY '*            P  E  S  B              *'
@PROW()+1,40 SAY '****************************************'
@PROW()+2,40 SAY '      ERROR LISTING OF  BIO-DATA'
@PROW()+1,55 SAY DTOC(DATE())
@PROW()+2,10 SAY 'IN EDUCATIONAL INFORMATION  :'
@PROW()+2,1 SAY REPL('*',100)
DO WHILE .NOT. EOF()
 @PROW()+2,5 SAY 'Identification no. : '+IDNO
 @PROW(),40 SAY 'Employee sector code : '+EMP_CODE
 @PROW(),70 SAY 'Record number : '+str(recno(),6)
 store QUALIFICAT to QUA
 store Q_YEAR to YR
 store Q_DIV to DIV
 Store Q_COURSE to COU
 Store SUBJECT1 to SUB1
 store SUBJECT2 to SUB2
 store SUBJECT3 to SUB3
 Store SUBJECT4 to SUB4
 store FI_OF_SPEC to FOFS
 sele 2
 use qual inde qual
 seek qua
 IF EOF()
  @prow()+2,1 SAY 'Code for Qualification is not correct : '+qua
 ENDIF
 if val(yr)=0
  @prow()+2,1 say 'Year entry is not correct : '+yr
 endif
 sele 2
 USE DIVS INDE DIVS
 seek DIV
 IF EOF()
  @prow()+2,1 SAY 'The code for division is not correct : '+div
 ENDIF
 sele 2
 USE COUR INDE COUR
 seek COU
 IF EOF()
  @prow()+2,1 SAY 'Course code is not correct : '+cou
 ENDIF
 sele 2
 sub1=uppe(sub1)
 USE SUBJECT INDE SUBJECT
 seek SUB1
 IF EOF()
  @prow()+2,1 SAY 'Code for Subject1 is not correct : '+sub1
 ENDIF
 go top
 SUB2=UPPE(SUB2)
 seek SUB2
 IF EOF()
  @prow()+2,1 SAY 'Code for Subject2 is not correct : '+sub2
 ENDIF
 go top
```

```
 seek SUB3
 IF EOF()
  @prow()+2,1 SAY 'Code for Subject3 is not correct : '+sub3
 ENDIF
 go top
 SUB4=UPPE(SUB4)
 seek SUB4
 IF EOF()
  @prow()+2,1 SAY 'Code for Subject4 is not correct : '+sub4
 ENDIF
 sele 2
 USE FOFSP INDE FOFSP
 seek FOFS
 IF EOF()
  @prow()+2,1 SAY 'Code for Field of Specialisation is not correct : '+FO
 ENDIF
 @prow()+1,1 say repl('-',100)
**********************
 sele 4
 skip
ENDDO
@prow()+1,1 say repl('*',100)
SET DEVI TO SCRE
CLEA
RETU
```

```
**********************INPV3 COMM FILE**********************
***FOR THE VALIDATION OF THE TRAININF FILE
***A MODULE OF THE VALIDATE PROGRAM
clea
sele 4
use TRAININF
GO RENO
@10,10 SAY 'VALIDATING THE TRAINING FILE'
set devi to prin
@1,40 SAY '*************************************'
@PROW()+1,40 SAY '*    PERSONNEL INFORMATION SYSTEM    *'
@PROW()+1,40 SAY '*            P  E  S  B              *'
@PROW()+1,40 SAY '*************************************'
@PROW()+2,40 SAY '      ERROR LISTING OF  BIO-DATA'
@PROW()+1,55 SAY DTOC(DATE())
@prow()+2,10 SAY 'IN TRAINING INFORMATION  :'
@prow()+2,1 SAY REPL('*',100)
DO WHILE .NOT. EOF()
 @PROW()+2,5 SAY 'Identification no. : '+IDNO
 @PROW(),40 SAY 'Employee sector code : '+EMP_CODE
 @PROW(),75 SAY Record number : '+STR(RECNO(),6)
 store T_CODE to TRCOR
 store T_LEVEL to LTRCOR
 store T_COUNTRY to COUNTR
 Store T_DURATIO to DUR
 Store T_YEAR to YER
 sele 2
 use train inde train
 seek trcor
 if eof()
  @prow()+2,1 say 'Training code is not correct : '+TRCOR
 endif
 if .not. ltrcor $ '12'
  @prow()+2,1 say 'Level of training code is not correct : '+LTRCOR
 endif
 sele 2
 use country inde country
 seek countr
 if eof()
  @prow()+2,1 say 'Code for country is not correct : '+COUNTR
 endif
 if val(dur)=0
  @prow()+2,1 say 'Training duration is not valid : '+DUR
 endif
 if val(yer)=0
  @prow()+2,1 say 'Year of training is not valid : '+YER
 endif
 @PROW()+1,1 SAY REPL('-',100)
 ********************
 sele 4
 skip
ENDDO
@PROW()+1,1 SAY REPL('-',100)
SET DEVI TO SCRE
CLEA
RETU
```

```
**********************INPV4 COMM FILE**********************
***FOR THE VALIDATION OF THE EXPERINF FILE
***A MODULE OF THE VALIDATE PROGRAM
clea
sele 4
use EXPERINF
GO RENO
@10,10 SAY 'VALIDATING THE EXPERIENCE FILE'
set devi to prin
@1,40 SAY '*****************************************'
@PROW()+1,40 SAY '*    PERSONNEL INFORMATION SYSTEM     *'
@PROW()+1,40 SAY '*            P  E  S  B               *'
@PROW()+1,40 SAY '*****************************************'
@PROW()+2,40 SAY '      ERROR LISTING OF  BIO-DATA'
@PROW()+1,55 SAY DTOC(DATE())
@PROW()+2,10 SAY 'IN EXPERIENCE INFORMATION  :'
@PROW()+2,1 SAY REPL('*',100)
DO WHILE .NOT. EOF()
 @PROW()+1,5 SAY 'Identification no. : '+IDNO
 @PROW(),40 SAY 'Employee sector code : '+EMP_CODE
 @PROW(),75 SAY Record number : '+STR(RECNO(),6)
 store DESIG_CODE to DESI
 store FI_OF_EXP to FOFE
 STORE PER_FROM to PFROM
 Store PER_TO to PTO
 STORE SCALE_CODE TO SCPAY
 sele 2
 use desig inde desig
 seek desi
 if eof()
  @prow()+2,1 say 'The Designation code is not correct : '+DESI
 endif
 SELE 2
 use fofsp inde fofsp
 seek fofe
 if eof()
  @prow()+2,1 say 'Code for field of specialisation is not correct : '+FO
 endif
 if val(pfrom)=0
  @prow()+2,1 say 'Period from is not valid : '+STR(PFROM,4
 endif
 if val(pto)=0
  @prow()+2,1 say 'Period to is not valid : '+STR(PTO,4)
 endif
 sele 2
 use scale inde scale
 seek scpay
 if eof()
  @prow()+2,1 say 'The code for scale of pay is not correct : '+SCPAY
 endif
 @PROW()+1,1 SAY REPL('-',100)
*******************
 sele 4
 skip
ENDDO
@PROW()+1,1 SAY REPL('*',100)
SET DEVI TO SCRE
CLEA
RETU
```

```
**********************INPV6 COMM FILE**********************
***FOR THE VALIDATION OF PROMINF FILE
***A MODULE OF VALIDATE PROGRAM
clea
sele 4
use PROMINF
GO RENO
@10,10 SAY 'VALIDATING THE PROMOTIONAL FILE'
set devi to prin
@1,40 SAY '****************************************'
@PROW()+1,40 SAY '*    PERSONNEL INFORMATION SYSTEM    *'
@PROW()+1,40 SAY '*            P  E  S  B              *'
@PROW()+1,40 SAY '****************************************'
@PROW()+2,40 SAY '      ERROR LISTING OF  BIO-DATA'
@PROW()+1,55 SAY DTOC(DATE())
@PROW()+2,10 SAY 'IN PROMOTIONAL INFORMATION  :'
@PROW()+2,1 SAY REPL('*',100)
DO WHILE .NOT. EOF()
 @PROW()+1,5 SAY 'Identification no. : '+IDNO
 @PROW(),40 SAY 'Employee sector code : '+EMP_CODE
 @PROW(),75 SAY 'Record number : '+str(recno(),6)
 store NATOFPOST to NOFPO
 store SPECIFY to SPNAME
 store SAME_OT to ANYOT
 if .not. nofpo $ '12'
  @prow()+2,1 say 'Code for Nature of post is not correct : '+NOFPO
 else
  if nofpo = '1'
   store spaces(25) to spname
   repl SPECIFY with spname
  endif
 endif
 if .not. esc = '1'
  anyot=' '
  repl SAME_OT with anyot
 else
  if .not. anyot $ '12'
   @prow()+2,1 say 'The code for Same / Others is not correct : '+ANYOT
  endif
 endif
 @PROW()+1,1 SAY REPL('-',100)
*********************
 sele 4
 skip
ENDDO
@PROW()+1,1 SAY REPL('*',100)
SET DEVI TO SCRE
CLEA
RETU
```

```
**********INPVAL COMM FILE**********
***FOR VALIDATING THE WHOLE BIODATA FORM
****STARTING FROM BASINF FILE
***A MODULE OF VALIDATE
clea
sele 4
use basinf inde basinf
GO RENO
@10,10 SAY 'VALIDATING THE BASIC INFORMATION FILE'
set devi to prin
@1,40 SAY '*************************************'
@PROW()+1,40 SAY '*    PERSONNEL INFORMATION SYSTEM    *'
@PROW()+1,40 SAY '*           P  E  S  B               *'
@PROW()+1,40 SAY '*************************************'
@PROW()+2,40 SAY '      ERROR LISTING OF  BIO-DATA'
@PROW()+1,55 SAY DTOC(DATE())
DO WHILE .NOT. EOF()
 store emp_code to esc
 store idno to id
 store dofrecpt to DOFR
 store lastname to ln
 STORE d_of_birth to  dofb
 store sexcode to sex
 store marstatus to mar
 store no_of_chil to noc
 STORE PRE_PIN TO PREPIN
 store pre_phone to prep
 STORE PER_PIN TO PERPIN
 store per_phone to perp
 store scstot to com
 store exserman to exs
 store designatio to des
 store depARTMENT to DEP
 store basicpay to bpay
 store doofdrawn to dofd
 store language1 to ol1
 store language2 to ol2
 store language3 to ol3
 store language4 to ol4
 store ri1 to r1
 store ri2 to r2
 store ri3 to r3
 store ri4 to r4
 store wi1 to w1
 store wi2 to w2
 store wi3 to w3
 store wi4 to w4
 store si1 to s1
 store si2 to s2
 store si3 to s3
 store si4 to s4
 @PROW()+2,1 SAY REPL('*',100)
 @PROW()+2,1 SAY 'IDENTIFICATION NO. : '+ID
 @PROW(),40 SAY 'EMPLOYEE SECTOR CODE : '+ESC
 @PROW()+1,1 SAY REPL('-',100)
 @PROW()+2,10 SAY 'IN BASIC INFORMATION  :'
 if .not. esc $ '1234'
  @prow()+2,1 say 'Employee sector code is not correct : '+ESC
 endif
 if val(id)=0
  @prow()+2,1 say 'Identification number is not correct : '+ID
 endif
 if DATE() < DOFR .OR. DOFR=CTOD('  /  /  ')
  @prow()+2,1 SAY 'Date of receipt is not correct : '+DTOC(DOFR)
 endif
```

```
replace lastname with ln
qyr=year(date())-year(d_of_birth)
if qyr > 58 .or. qyr < 18 .or. dofb=ctod('  /  /  ')
 @prow()+2,1 say 'Date of birth is not correct : '+DTOC(DOFB)
endif
if .not. sex $ '12'
 @prow()+2,1 say 'Sex code is not correct : '+SEX
endif
if .not. mar $ '123'
 @prow()+2,1 say 'Marital Status code is not correct : '+MAR
endif
IF MAR='2'
 NOC=' '
endif
if (.not. prepin=' ') .and. (val(prepin)=0)
 @prow()+2,1 say 'Present pin code is not correct : '+PREPIN
endif
if (.not. prep=' ') .and. (val(prep)=0)
 @prow()+2,1 say 'Present phone no. is not valid : '+PREP
endif
if (.not. perpin=' ') .and. (val(perpin)=0)
 @prow()+2,1 say 'Permanent pin code is not correct : '+PERPIN
endif
if (.not. perp=' ') .and. (val(perp)=0)
 @prow()+2,1 say 'Permanent phone no. is not valid : '+PERP
endif
if .not. com $ '123'
 @prow()+2,1 say 'SC / ST code is not correct : '+COM
endif
if .not. exs $ '12'
 @prow()+2,1 say 'Exserviceman code is not correct : '+EXS
endif
sele 2
use desig inde desig
seek des
if eof()
 @prow()+2,1 say 'Designation code is not correct : '+DES
endif
if dofd > date() .or. (year(dofd) < year(dofb))
 @prow()+2,1 say 'Date of drawing salary is invalid : '+DTOC(DOFD)
endif
sele 2
USE LANGUAGE INDE LANGUAGE
seek OL1
IF EOF()
 @prow()+2,1 SAY 'Language1 code is not correct : '+OL1
ENDIF
go top
seek ol2
if eof()
 @prow()+2,1 say 'Language2 code is not correct : '+OL2
endif
go top
seek ol3
if eof()
 @prow()+2,1 say 'Language3 code is not correct : '+OL3
endif
go top
seek ol4
if eof()
 @prow()+2,1 say 'Language4 code is not correct : '+OL4
endif
if .NOT. R1 $ '12 '
 @prow()+2,1 say 'Code for Read1 is not correct : '+R1
endif
if .not. r2 $ '12 '
 @prow()+2,1 say 'Code for Read2 is not correct  '+R2
endif
if .not. r3 $ '12 '
 @prow()+2,1 say 'Code for Read3 is not correct : '+R3
endif
```

```
 @prow()+2,1 say 'Code for Read4 is not correct : '+R4
 endif
 if .not. w1 $ '12 '
  @prow()+2,1 say 'Code for Write1 is not correct : '+W1
 endif
 if .not. w2 $ '12 '
  @prow()+2,1 say 'Code for Write2 is not correct : '+W2
 endif
 if .not. w3 $ '12 '
  @prow()+2,1 say 'Code for Write3 is not correct : '+W3
 endif
 if .not. w4 $ '12 '
  @prow()+2,1 say 'Code for Write4 is not correct : '+W4
 endif
 if .not. s1 $ '12 '
  @prow()+2,1 say 'Code for Speak1 is not correct : '+S1
 endif
 if .not. s2 $ '12 '
  @prow()+2,1 say 'Code for Speak2 is not correct : '+S2
 endif
 if .not. s3 $ '12 '
  @prow()+2,1 say 'Code for Speak3 is not correct : '+S3
 endif
 if .not. s4 $ '12 '
  @prow()+2,1 say 'Code for Speak4 is not correct : '+S4
 endif
 DO INPVB
 DO INPVC
 DO INPVD
 DO INPVF
 SELE 4
 SKIP
ENDDO
@PROW()+1,1 SAY REPL('*',100)
@PROW()+1,1 SAY REPL('*',100)
SET DEVI TO SCRE
CLEA
RETU
```

```
**********************INPVB COMM FILE**********************
***FOR VALIDATING THE EUDINF RECORDS
***A MODULE OF INPVAL PROGRAM
sele 3
use eudinf inde eudinf
go top
seek id
if eof()
 @ prow()+3,10 say 'THERE IS NO EDUCATION RECORD FOR THIS NAME'
 return
endif
@ PROW()+3,10 SAY 'IN EDUCATIONAL INFORMATION  :'
DO WHILE IDNO=ID .AND. EMP_CODE=ESC .AND. (.NOT. EOF())
 @prow()+2,5 say 'Record number : '+str(recno(),6)
 store QUALIFICAT to QUA
 store Q_YEAR to YR
 store Q_DIV to DIV
 Store Q_COURSE to COU
 Store SUBJECT1 to SUB1
 store SUBJECT2 to SUB2
 store SUBJECT3 to SUB3
 Store SUBJECT4 to SUB4
 store FI_OF_SPEC to FOFS
 sele 2
 use qual inde qual
 seek qua
 IF EOF()
  @prow()+2,1 SAY 'Code for Qualification is not correct : '+QUA
 ENDIF
 if val(yr)=0
  @prow()+2,1 say 'Year entry is not correct : '+YR
 endif
 sele 2
 USE DIVS INDE DIVS
 seek DIV
 IF EOF()
  @prow()+2,1 SAY 'The code for division is not correct : '+DIV
 ENDIF
 sele 2
 USE COUR INDE COUR
 seek COU
 IF EOF()
  @prow()+2,1 SAY 'Course code is not correct : '+COU
 ENDIF
 sele 2
 sub1=uppe(sub1)
 USE SUBJECT INDE SUBJECT
 seek SUB1
 IF EOF()
  @prow()+2,1 SAY 'Code for Subject1 is not correct : '+SUB1
 ENDIF
 go top
 SUB2=UPPE(SUB2)
 seek SUB2
 IF EOF()
  @prow()+2,1 SAY 'Code for Subject2 is not correct : '+SUB2
 ENDIF
 go top
 SUB3=UPPE(SUB3)
 seek SUB3
 IF EOF()
  @prow()+2,1 SAY 'Code for Subject3 is not correct : '+SUB3
 ENDIF
 go top
 SUB4=UPPE(SUB4)
```

```
 IF EOF()
  @prow()+2,1 SAY 'Code for Subject4 is not correct : '+SUB4
 ENDIF
 sele 2
 USE FOFSP INDE FOFSP
 seek FOFS
 IF EOF()
  @prow()+2,1 SAY 'Code for Field of Specialisation is not correct : '+FO
 ENDIF
*********************
 sele 3
 skip
enddo
retu
```

```
**********************INPVC COMM FILE**********************
***FOR VALIDATING THE TRAININF FILE
***A MODULE OF INPVAL PROGRAM
sele 3
use traininf inde traininf
go top
seek id
if eof()
 @ prow()+3,10 say 'THERE IS NO TRAINING RECORD FOR THIS NAME'
 return
endif
@ PROW()+3,10 SAY 'IN TRAINING INFORMATION  :'
DO WHILE IDNO=ID .AND. EMP_CODE=ESC .AND. (.NOT. EOF())
 @prow()+2,5 say 'Record number : '+str(recno(),6)
 store T_CODE to TRCOR
 store T_LEVEL to LTRCOR
 store T_COUNTRY to COUNTR
 Store T_DURATIO to DUR
 Store T_YEAR to YER
 sele 2
 use train inde train
 seek trcor
 if eof()
  @prow()+2,1 say 'Training code is not correct : '+TRCOR
 endif
 if .not. ltrcor $ '12'
  @prow()+2,1 say 'Level of training code is not correct : '+LTRCOR
 endif
 sele 2
 use country inde country
 seek countr
 if eof()
  @prow()+2,1 say 'Code for country is not correct : '+COUNTR
 endif
 if val(dur)=0
  @prow()+2,1 say 'Training duration is not valid : '+DUR
 endif
 if val(yer)=0
  @prow()+2,1 say 'Year of training is not valid : '+YER
 endif
******************
 sele 3
 skip
enddo
retu
```

```
**********************INPVD COMM FILE**********************
***FOR THE VALIDATION OF THE EXPERINF RECORDS
***A MODULE OF THE INPVAL PROGRAM
sele 3
use experinf inde experinf
go top
seek id
if eof()
 @prow()+3,10 say 'THERE IS NO EXPERIENCE RECORD FOR THIS NAME'
 return
endif
@PROW()+3,10 SAY 'IN EXPERIENCE INFORMATION  :'
DO WHILE IDNO=ID .AND. EMP_CODE=ESC .AND. (.NOT. EOF())
 @prow()+2,5 say 'Record number : '+str(recno(),6)
 store DESIG_CODE to DESI
 store FI_OF_EXP to FOFE
 STORE PER_FROM to PFROM
 Store PER_TO to PTO
 STORE SCALE_CODE TO SCPAY
 sele 2
 use desig inde desig
 seek desi
 if eof()
  @prow()+2,1 say 'The Designation code is not correct : '+DESI
 endif
 SELE 2
 use fofsp inde fofsp
 seek fofe
 if eof()
  @prow()+2,1 say 'Code for field of specialisation is not correct : '+FOFE
 endif
 if pfrom=0
  @prow()+2,1 say 'Period from is not valid : '+STR(PFROM,4)
 endif
 if pto=0
  @prow()+2,1 say 'Period to is not valid : '+STR(PTO,4)
 endif
 sele 2
 use scale inde scale
 seek scpay
 if eof()
 @prow()+2,1 say 'The code for scale of pay is not correct : '+SCPAY
 endif
*********************
 sele 3
 skip
enddo
retu
```

```
 APPU= ' '
 @21,0 SAY 'Which field do you want to update?'
 @22,0 say 'Enter your choice from above displayed e.g 1,2,3,....,10'
 @23,0 say 'Enter field no. ' get appu pict '99'
 read
 @21,0 clear
 appu=val(appu)
 do case
 case appu = 1
  DO WHILE .T.
   @3,27 GET ESC PICT '9'
   READ
   IF ESC=' '
    @21,0 SAY 'ERROR: YOU MUST ENTER EMP SECTOR CODE'
    LOOP
   ELSE
    IF VAL(ESC) > 4
     @21,0 SAY 'ERROR: YOU MUST ENTER CORRECT EMP SECTOR;
CODE'
     LOOP
    ELSE
     EXIT
    ENDIF
   ENDIF
  ENDDO
 case appu =2
  DO WHILE .T.
   @5,36 GET DOFR PICT 'E'
   READ
   IF DATE() < DOFR .OR. DOFR=CTOD('  /  /  ')
    @21,0 SAY 'DATE OF RECEIPT IS GREATER THAN CURRENT DATE'
    LOOP
   else
    EXIT
   ENDIF
  ENDDO
 case appu = 3
  @7,40 GET RK PICT '@X'
  read
 case appu = 4
  @9,20 GET LN PICT '@A'
  read
 case appu = 5
  @11,21 GET OT PICT '@X'
  read
 case appu = 6
  DO WHILE .T.
   @13,30 GET DOFB PICT 'E'
   READ
   IF DATE() < DOFB .OR. DOFB=CTOD('  /  /  ')
    @21,0 SAY ' DATE OF BIRTH IS GREATER THAN CURRENT DATE'
    LOOP
   ELSE
    EXIT
   ENDIF
  ENDDO
 case appu =7
  sex= ' '
  DO WHILE .NOT. SEX $ '12'
   SEX=' '
   @15,19 GET SEX PICT '!'
   READ
  ENDDO
 case appu = 8
  MAR=' '
  DO WHILE .NOT. MAR $ '12'
   MAR= ' '
   @15,45 GET MAR PICT '!'
   READ
  ENDDO
  IF MAR='2'
```

```
**********************INPVC COMM FILE**********************
***FOR VALIDATING THE TRAININF FILE
***A MODULE OF INPVAL PROGRAM
sele 3
use traininf inde traininf
go top
seek id
if eof()
 @ prow()+3,10 say 'THERE IS NO TRAINING RECORD FOR THIS NAME'
 return
endif
@ PROW()+3,10 SAY 'IN TRAINING INFORMATION  :'
DO WHILE IDNO=ID .AND. EMP_CODE=ESC .AND. (.NOT. EOF())
 @prow()+2,5 say 'Record number : '+str(recno(),6)
 store T_CODE to TRCOR
 store T_LEVEL to LTRCOR
 store T_COUNTRY to COUNTR
 Store T_DURATIO to DUR
 Store T_YEAR to YER
 sele 2
 use train inde train
 seek trcor
 if eof()
  @prow()+2,1 say 'Training code is not correct : '+TRCOR
 endif
 if .not. ltrcor $ '12'
  @prow()+2,1 say 'Level of training code is not correct : '+LTRCOR
 endif
 sele 2
 use country inde country
 seek countr
 if eof()
  @prow()+2,1 say 'Code for country is not correct : '+COUNTR
 endif
 if val(dur)=0
  @prow()+2,1 say 'Training duration is not valid : '+DUR
 endif
 if val(yer)=0
  @prow()+2,1 say 'Year of training is not valid : '+YER
 endif
*******************
 sele 3
 skip
enddo
retu
```

```
**********************INPVF COMM FILE**********************
***FOR THE VALIDATION OF THE PROMINF RECORDS
***A MODULE OF THE INPVAL PROGRAM
sele 3
use prominf inde prominf
go top
seek id
if eof()
 @prow()+3,10 say 'THERE IS NO PROMOTIONAL RECORD FOR THIS NAME'
 return
endif
@PROW()+3,10 SAY 'IN PROMOTIONAL INFORMATION  :'
DO WHILE IDNO=ID .AND. EMP_CODE=ESC .AND. (.NOT. EOF())
 @prow()+2,5 say 'Record number : '+str(recno(),6)
 store NATOFPOST to NOFPO
 store SPECIFY to SPNAME
 store SAME_OT to ANYOT
 if .not. nofpo $ '12'
  @prow()+2,1 say 'Code for Nature of post is not correct : '+NOFPO
 else
  if nofpo = '1'
   store space(25) to spname
   repl SPECIFY with spname
  endif
 endif
 if .not. esc = '1'
  anyot=' '
  repl SAME_OT with anyot
 else
  if .not. anyot $ '12'
   @prow()+2,1 say 'The code for Same / Others is not correct : '+ANYOT
  endif
 endif
*******************
 sele 3
 skip
enddo
retu
```

---------- PROGRAM NUMBER : 38 ---------- FOR PESB

```
**************migi command file************
***A MODULE OF THE ENTER3 PROGRAM
set talk oN
clea
mig='Y'
do while upper(mig)='Y'
 appe blan
 do &ii
 CLEA
 mig=' '
 do while .not. (upper(mig) $ 'YN')
  @10,0 say jj
  @10,col()+1 get mig
  read
 enddo
 if upper(mig)='Y'
  clear
  loop
 endif
enddo
retu
```

```
*********OPTION1 COMM FILE*********
***A MODULE OF UPDATE3 PROGRAM
set talk off
clear
do case
 case fname='2'
  do UPD0B
 case fname='3'
  do UPD0C
 case fname='4'
  do UPD0D
 case fname='5'
  do UPD0E
 case fname='6'
  do UPD0F
endcase
return
```

```
***************OPTIONR COMMAND FILE**************
***A MODULE OF AFLAG1,AFLAG21 PROGRAMS
PUBL CHOIC
CLEA
CHOIC= ' '
@2,10 SAY 'OPTION SELECTION MENU'
@3,10 SAY '-----------------------'
@5,5 SAY 'PRESS 1 >IF YOU WANT BASIC INFORMATION'
@6,5 SAY 'PRESS 2 >IF YOU WANT EDUCATIONAL INFORMATION'
@7,5 SAY 'PRESS 3 >IF YOU WANT TRAINING INFORMATION'
@8,5 SAY 'PRESS 4 >IF YOU WANT EXPERIENCE INFORMATION'
@9,5 SAY 'PRESS 5 >IF YOU WANT MEMBERSHIP INFORMATION'
@10,5 SAY 'PRESS 6 >IF YOU WANT PROMOTIONAL INFORMATION'
@11,5 SAY 'PRESS <return> to go back to previous menu'
@14,5 SAY 'ENTER YOUR CHOICE' GET CHOIC
read
retu
```

```
*********PESB COMM FILE*********
***MAIN PROGRAM OF PUBLIC ENTERPRISES SELECTION BOARD
****BIO-DATA INFORMATION SYSTEM
close all
SET SCORE OFF
SET STAT OFF
set talk off
set bell off
set echo off
CLEAR ALL
***CHECK WHETHER ENTRY DONE AT THE PREVIOUS INSTANCE
****OF USING THE SYSTEM
SELE 6
USE VALIDN
IF FLGG
 DO VALIDATE
ENDIF
CLEAR ALL
clear
set print off
CHOICE=' '
SET TALK off
DO WHILE .NOT. CHOICE $ '12345'
    CHOICE=' '
    @ 1,5 SAY '                    BIO DATA INFORMATION SYSTEM   '
    @ 3,5 SAY '                              FOR  P E S B'
    SET COLO TO *W
    @ 5,5 SAY '                                DEVELOPED BY NIC'
    SET COLO TO W
    @ 6,3 TO 18,70  DOUBLE
    @ 7,10 SAY '     M E N U  S E L E C T I O N  O P T I O N S'
    @ 9,10 SAY '1.--ENTER,UPDATE AND DELETE DATA RECORDS'
    @ 11,10 SAY '2.--PROCESSING OF QUERIES'
    @ 13,10 SAY '3.--GENERATING REPORTS ON PRINTER'
    @ 15,10 SAY '4.--LISTING OF CODE DIRECTORIES'
    @ 17,10 SAY '5.--QUIT FROM THE SYSTEM'
    @ 19,10 SAY 'MAKE YOUR CHOICE FROM THE DISPLAYED MENU';
    GET CHOICE PICT '!'
    READ
    DO CASE
       CASE CHOICE = '1'
          DO EAUPMENU
       CASE CHOICE = '2'
          DO QUERMENU
       CASE CHOICE= '3'
          DO COMPLETE
       CASE CHOICE ='4'
          DO DIRECT
       CASE CHOICE='5'
          SET TALK ON
          CLEA
          EXIT
    ENDCASE
    IF CHOICE = '1'
        IF .NOT. TEM1 = '1'
           CHOICE = ' '
        ENDIF
    ELSE
        CHOICE = ' '
    ENDIF
ENDDO
CLEAR ALL
SET SCORE ON
SET TALK ON
```

```
*********Q1 COMM FILE*********
***FOR LISTING OF OFFICERS ACCORDING TO THEIR SECTOR CODE
clear
set talk off
clos DATABASES
publ s
s=' '
chice=' '
use basinf
index on emp_code to bassect
close all
sele 4
use basinf inde bassect
@9,20 say 'You want Officers of which sector ?'
@11,10 to 16,75 doub
@12,15 say 'Press 1 for   Public Sector'
@13,15 say 'Press 2 for   Civil Services'
@14,15 say 'Press 3 for   Defence services'
@15,15 say 'Press 4 for   Private sector'
@17,15 say 'Enter your choice' get chice
read
clea
do case
 case chice='1'
  s='Public Sector'
 case chice='2'
  s='Civil Services'
 case chice='3'
  s='Defence Services'
 case chice='4'
  s='Private Sector'
endcase
qkey='emp_code'
do qcomm
clos all
erase bassect.ndx
wait
retu
```

```
******02 COMM FILE*******
***FOR LISTING OUT OFFICERS ACCORDING TO THEIR SEX
clear
clos all
s=' '
chice=' '
use basinf
inde on SEXCODE to bassex
clos all
sele 4
use basinf inde bassex
@9,20 say 'You want listing of Officers of which sex ?'
@11,10 to 15,75 doub
@12,15 say 'Press 1 for   Male'
@14,15 SAY 'Press 2 for   Female'
@16,15 say 'Enter your choice' get chice
read
clea
do case
 case chice='1'
  s='List of Male Officers'
 case chice='2'
  s='List of Female officers'
endcase
qkey='sexcode'
do qcomm
close all
delete file bassex.ndx
wait
return
```

PROGRAM NUMBER : 44 FOR PESB

```
*********Q3 COMM FILE*********
***FOR LISTING OUT OFFICERS ACCORDING TO THEIR CASTE
clear
clos all
s=' '
chice=' '
use basinf
inde on $CSTOT to bascaste
clos all
sele 4
use basinf inde bascaste
@9,20 say 'You want listing of Officers of which class ?'
@11,10 to 17,75 doub
@12,15 say 'Press 1 for   Scheduled Caste'
@14,15 SAY 'Press 2 for   Scheduled Tribe'
@16,15 SAY 'Press 3 for   Others'
@18,15 say 'Enter your choice' get chice pict '?'
read
clea
do case
 case chice='1'
  s='List of Scheduled Caste Officers'
 case chice='2'
  s='List of Scheduled Tribe Officers'
 case chice='3'
  s='List of Other Officers'
endcase
qkey='SCSTOT'
do qcomm
close all
delete file bascaste.ndx
wait
retu
```

```
*********04 COMM FILE*********
***FOR LISTING OUT OFFICERS ACCORDING TO THE LANGUAGE THEY KNOW
clear
set bell off
set talk off
clos all
ANS=' '
chice='  '
DO WHILE .T.
 @9,20 say 'You want listing of Officers of which Language ?'
 @12,10 to 14,75 doub
 @13,15 say 'Enter the Language code' get chice pict '99'
 read
 clea
 sele 1
 use language inde language
 if chice='  '
  RETU
 else
  find '&chice'
  if eof()
   GO TOP
   @10,10 say 'Do you want listing of languages ? (Y or N)' get ans PICT '
   read
   clea
   if uppe(ans) = 'Y'
    list
    WAIT
   endif
   LOOP
  ELSE
   EXIT
  ENDIF
 ENDIF
ENDDO
clear
onpr=' '
do while .not. onpr $ '12'
 @10,5 say 'Press 1)----> If you want on printer (complete information) .'
 @12,5 say 'Press 2)----> If you want on screen (only names) .'
 @16,5 say 'Enter your choice (1 or 2) : ' get onpr pict '9'
 read
enddo
clea
if onpr='1'
 set devi to prin
endif
@1,21 SAY 'OFFICERS WHO KNOW '+DESCRP
@2,21 say '******************'+repl('*',len(trim(descrp)))
SELE 1
USE
sele 4
use basinf inde basinf
L='&CHICE'
do while .not. eof()
 if language1=L .OR. LANGUAGE2=L .OR. LANGUAGE3=L OR. LANGUAGE4=L
  if onpr='1'
   id=idno
   aep=emp_code
   do comp1
   do comp2
   do comp3
   do comp4
   do comp5
   do comp6
```

```
  else
   ? '              ',trim(firstname)+' '+trim(lastname)
  endif
 endif
 sele 4
 skip
enddo
if onpr='1'
 set devi to scre
endif
close all
wait
retu
```

```
**********Q5 COMM FILE**********
clear
set talk off
clos all
ANS=' '
chice='  '
DO WHILE .T.
 @9,20 say 'You want listing of Officers of which Qualification'
 @11,10 to 13,75 doub
 @12,15 say 'Enter your Qualification code' get chice pict '99'
 read
 clea
 sele 1
 use QUAL inde QUAL
 if chice='  '
  RETU
 else
  find '&chice'
  if eof()
   GO TOP
   @10,10 say 'Do you want listing of Qualifications (Y or N)' get ans PIC
   read
   clea
   if uppe(ans) = 'Y'
    list
    WAIT
   endif
   LOOP
  ELSE
   EXIT
  ENDIF
 ENDIF
ENDDO
clea
onpr=' '
do while .not. onpr $ '12'
 @ 10,10 say 'Press 1)----> If you want on printer (complete information) .'
 @ 12,10 say 'Press 2)----> If you want on screen (only names) .'
 @ 16,10 say 'Enter your choice (1 or 2) : ' get onpr pict '9'
 read
enddo
if onpr='1'
 set devi to prin
else
 clea
endif
@1,21 SAY 'OFFICERS WHO ARE  '+DESCRP
@2,21 say '******************'+repl('*',len(trim(descrp)))
sele 4
use basinf inde basinf
do while .not. eof()
 id=idno
 aep=emp_code
 RENO=RECNO()
 lanme=trim(firstname)+' '+trim(lastname)
 sele 5
 use eudinf inde eudinf
 seek id
 RNO = RECNO()
 do while idno=id .and. (.not. eof())
  if emp_code=aep .AND. qualificat='&CHICE'
   if onpr='1'
    SELE 5
    USE
    SELE 4
    GO RENO
```

```
    do comp1
    do comp2
    do comp3
    do comp4
    do comp5
    do comp6
    eject
    SELE 5
    USE EUDINF INDE EUDINF
    GO RNO
   else
    ? '                ',lanme
   endif
   EXIT
  endif
  SELE 5
  SKIP
 enddo
 sele 4
 skip
enddo
if onpr='1'
 set devi to scre
endif
close all
wait
clea
return
```

```
*****************QCOMM COMM FILE*******************
***A MODULE OF QUERY PROGRAMS - Q1,Q2,Q3
onpr=' '
do while .not. onpr $ '12'
 @10,10 say 'Press 1)----> If you want on printer (full information) .'
 @12,10 say 'Press 2)----> If you want on screen (only names) .'
 @16,10 say 'Enter your choice (1 or 2) : ' get onpr pict '9'
 read
enddo
if onpr='1'
 set devi to prin
else
 clear
endif
r=1
@r,10 say repl('*',len(trim(s)))
@r+1,10 say s
@r+2,10 say repl('*',len(trim(s)))
R=R+2
do while .not. eof()
 if r > 20 .and. onpr='2'
  wait
  clea
  r=1
  @r,10 say s
  @r+1,10 say repl('*',len(trim(s)))
 endif
 if &qkey='&chice'
  if onpr='2'
   x=trim(firstname)+' '+trim(lastname)
   @r+1,10 say x
   @r+2,10 say  ' '
  else
   id=idno
   aep=emp_code
   do comp1
   do comp2
   do comp3
   do comp4
   do comp5
   do comp6
   eject
  endif
 endif
 if onpr='1'
  r=1
 else
  r=r+1
 endif
 sele 4
 skip
enddo
if onpr='1'
 set devi to scre
endif
retu
```

```
**********************QUERMENU COMM FILE**************************
***FOR THE MENU OF QUERIES OFFERED
***A MODULE OF PESB PROGRAM
do while .t.
 CLOSE ALL
 clea
 @2,30 say 'THE  QUERIES  OFFERED'
 @3,30 say '-------------------------'
 @5,2 to 17,78 doub
 @6,14 say 'Press 1)---> To list out officers according to the'
 @7,35 say 'employee sector code .'
 @8,14 say 'Press 2)---> To list out officers according to their'
 @9,35 say 'sex .'
 @10,14 say 'Press 3)---> To list out officers according to their'
 @11,35 say 'caste .'
 @12,14 say 'Press 4)---> To list out officers according to the'
 @13,35 say 'language code .'
 @14,14 say 'Press 5)---> To list out officers according to the'
 @15,35 say 'qualification code .'
 @16,14 say 'Press 6)---> To return to previous menu'
 ans=0
 @21,4 say 'Enter your choice (1,2,3,4,5,6) : ' get ans pict '9'
 read
 do case
  case ans=1
   do q1
  case ans=2
   do q2
  case ans=3
   do q3
  case ans=4
   do q4
  case ans=5
   do q5
  case ans=6
   clear
   EXIT
 endcase
enddo
clea
retu
```

---------- PROGRAM NUMBER : 49 ---------- FOR PESB

```
**************rein command file**********
***FOR REINDEXING ALL THE MAIN DATABASE FILES
clea
close databases
@ 12,10 say 'Reindexing in progress'
sele 1
use basinf inde basinf
REIN
USE BASINF INDE BASLNAME
rein
USE EUDINF INDE EUDINF
REIN
USE TRAININF INDE TRAININF
REIN
USE EXPERINF INDE EXPERINF
REIN
USE MEMBERINF INDE MEMBERINF
REIN
USE PROMINF INDE PROMINF
REIN
clea
close databases
retu
```

```
**********UPDATE1 COMM FILE**********
***FOR UPDATING THE RECORDS
****of the basinf file
set talk off
clear
store emp_code to esc
store idno to id
store dofrecpt to DOFR
store sskm to rk
store lastname to ln
store firstname to oT
STORE d_of_birth to  dofb
store sexcode to sex
store marstatus to mar
store no_of_chil to noc
store pre_addr to prea
STORE PRE_PIN TO PREPIN
store pre_phone to prep
store per_addr to pera
STORE PER_PIN TO PERPIN
store per_phone to perp
store scstot to com
store exserman to exs
store designatio to des
store depARTMENT to DEP
store basicpay to bpay
store doofdrawn to dofd
store language1 to ol1
store language2 to ol2
store language3 to ol3
store language4 to ol4
store ri1 to r1
store ri2 to r2
store ri3 to r3
store ri4 to r4
store wi1 to w1
store wi2 to w2
store wi3 to w3
store wi4 to w4
store si1 to s1
store si2 to s2
store si3 to s3
store si4 to s4
clear
@1,35 say 'BASIC INFORMATION RECORD'
SET COLO TO W
@1,0 SAY TIME()
@1,11 SAY 'RECNO:'+STR(R,5)
@1,70 SAY DATE() PICT '@E'
@2,0 TO 20,78 DOUBLE
@3,5 SAY '(1) EMPL SECTOR CODE: '+ESC
@3,30 SAY 'IDENTIFICATION NO.: '+ID
@5,26 SAY '(2) DATE:'
@5,36 SAY DOFR
@7,5 SAY '(3) SHRI/SMT/KUM/DR/MILITARY RANK: '+RK
@9,5 SAY '(4) LAST NAME: '+LN
@11,5 SAY '(5) OTHER NAME: '+OT
@13,4 SAY '(6) D_OF_BIRTH(DD/MM/YY):'
@13,30 SAY DOFB
@15,5 SAY '(7) SEX CODE: '+SEX
@15,25 SAY '(8) MARITAL STATUS: '+MAR
@15,50 SAY 'NO. OF CHILDREN: '+NOC
@17,7 SAY '(9) PRESENT ADDRESS: '+PREA
@19,8 SAY '            PIN CODE: '+PREPIN
@19,45 SAY '(10) PRESENT PHONE: '+PREP
YES = 'Y'
```

```
      ELSE
       @15,67 GET NOC PICT '9'
       READ
      ENDIF
     case appu = 9
      @17,28 GET PREA
      read
      @19,28 GET PREPIN PICT '999999'
      READ
     case appu= 10
      @19,65 GET PREP PICT '9999999'
      READ
   endcase
   yes= ' '
   do while .not. (upper(yes) $ 'YN')
    @21,0 clea
    @21,0 say 'Do you want to update more fields (Y or N)' get yes
    @22,0 SAY 'If you want to go to next part press N .'
    read
   enddo
   if upper(yes)= 'Y'
    @21,0 clea
    loop
   endif
enddo
do updq1
return
```

```
***************update3 command file**************
***FOR UPDATION MENU, AND THE UPDATION MAIN PROGRAM
set talk off
clea
do datamenu
if fname=' '
 retu
endif
idea='1'
go top
if eof()
 ? 'There are no records in the file '
 wait
 CLEA
 return
endif
custom = 'Y'
do while upper(custom) = 'Y'
 clea
 @ 3,10 say 'Updating the '+ff
 GO TOP
 count to a
 @ 5,10 say 'There are '+str(a,5)+' records in the file '
 id=SPACE(5)
 ESC=' '
 @ 10,10 SAY 'As the specification of the record which you want to update
 @ 12,10 SAY 'Enter the identification no. : ' GET id PICT '99999'
 @ 14,10 SAY '       & employee sector code : ' GET ESC PICT '9'
 READ
 clear
 GO TOP
 SEEK ID
 R=0
 IF .NOT. EOF()
  DO WHILE IDNO=ID
   IF EMP_CODE=ESC
    R=RECNO()
    EXIT
   ELSE
    SKIP
   ENDIF
  ENDDO
 ENDIF
 CLEAR
 IF .NOT. FNAME = '1'
  RQ=' '
  @ 10,10 SAY 'Please enter the record no. of '+ff
  @ 12,38 GET RQ PICT '99999'
  READ
  R = VAL(RQ)
 ENDIF
 CLEAR
 IF R = 0 .OR. R > a
  @ 10,10 SAY 'Identification no. : '+id+'   Empl. sector code : '+ESC
  @ 12,10 SAY 'No such record exists in the '+ff
  CUSTOM=' '
  DO WHILE .NOT. (UPPE(CUSTOM) $ 'YN')
   @ 14,10 SAY 'Do you want to try again (Y or N) : ' GET CUSTOM
   READ
  ENDDO
  CLEA
  IF UPPE(CUSTOM)='Y'
   LOOP
  ELSE
   RELE CUSTOM,ID,ESC
```

```
 ENDIF
 ENDIF
 go r
 if fname='1'
  do update1
 else
  do option1
 endif
 clea
 custom=' '
 do while .not. (upper(custom) $ 'YN')
  @ 10,0 say 'Do you want to update more records of '+fff+';
(Y or N)'
  @ 11,10 say 'Enter your choice' get custom
  read
 enddo
 clea
 if upper(custom)= 'Y'
  loop
 else
  CLOSE ALL
  do rein
  EXIT
 endif
enddo
clea
return
```

```
**********************UPD01 COMM FILE**********************
***FOR THE UPDATION OF THE BASINF FILE
clea
@1,35 SAY 'BASIC INFORMATION RECORD'
SET COLO TO W
@1,0 SAY TIME()
@1,10 SAY 'RECNO:'+STR(R,5)
@1,70 SAY DATE()
@2,0 TO 20,78 DOUBLE
@3,7 SAY '(1) PERMANENT ADDRESS: '+PERA
@6,9 SAY '              PIN CODE: '+PERPIN
@6,45 SAY '(2) PERMANENT PHONE: '+PERP
@8,5 SAY '(3) SC / ST   CODE: '+COM
@8,30 SAY '(4) EX_SERVICEMAN: '+EXS
@10,5 SAY '(5) DESIGNATION: '+DES
@12,5 SAY '(6) DEPARTMENT: '+DEP
@14,5 SAY '(7) BASIC PAY: '+BPAY
@14,28 SAY '(8) DATE:'
@14,38 SAY DOFD
@16,5 SAY '(9)  LANGUAGE1: '+OL1
@16,24 SAY 'READ: '+R1
@16,32 SAY 'WRITE: '+W1
@16,41 SAY 'SPEAK: '+S1
@17,5 SAY '(10) LANGUAGE2: '+OL2
@17,24 SAY 'READ: '+R2
@17,32 SAY 'WRITE: '+W2
@17,41 SAY 'SPEAK: '+S2
@18,5 SAY '(11) LANGUAGE3: '+OL3
@18,24 SAY 'READ: '+R3
@18,32 SAY 'WRITE: '+W3
@18,41 SAY 'SPEAK: '+S3
@19,5 SAY '(12) LANGUAGE4: '+OL4
@19,24 SAY 'READ: '+R4
@19,32 SAY 'WRITE: '+W4
@19,41 SAY 'SPEAK: '+S4
kes='y'
do while upper(kes) = 'Y'
 kppu=' '
 @21,0 say 'Which field do you want to enter?'
 @22,0 say 'Enter your choice from above displayed fields e.g 1;
 2, 3,....,12'
 @23,0 say 'Enter field no.: ' get kppu
 read
 kppu=val(kppu)
 @21,0 clear
 DO UPD02
 KES=' '
 DO WHILE .NOT. (UPPE(KES) $ 'YN')
  @21,0 CLEA
  @21,0 SAY 'Do you want to update more fields (Y or N) : ' GET KES
  READ
 ENDDO
 IF UPPE(KES)='Y'
  @21,0 CLEA
  LOOP
 ENDIF
ENDDO
USE BASINF INDE BASINF
GO R
REPL EMP_CODE WITH ESC,;
     IDNO WITH ID,;
     DOFRECPT WITH DOFR,;
     SSKM WITH RK,;
     LASTNAME WITH LN
REPL FIRSTNAME WITH OT,;
```

```
     SEXCODE WITH SEX,;
     MARSTATUS WITH MAR,;
     NO_OF_CHIL WITH NOC
REPL PRE_ADDR WITH PREA,;
     PRE_PHONE WITH PREP,;
     PER_ADDR WITH PERA,;
     PER_PIN WITH PERPIN
REPL PER_PHONE WITH PERP,;
     PRE_PIN WITH PREPIN,;
     SCSTOT WITH COM,;
     EXSERMAN WITH EXS
REPL DESIGNATIO WITH DES,;
     BASICPAY WITH BPAY,;
     DEPARTMENT WITH DEP,;
     DOOFDRAWN WITH DOFD,;
     LANGUAGE1 WITH OL1
REPL RI1 WITH R1,;
     WI1 WITH W1,;
     SI1 WITH S1,;
     LANGUAGE2 WITH OL2,;
     RI2 WITH R2
REPL WI2 WITH W2,;
     SI2 WITH S2,;
     LANGUAGE3 WITH OL3,;
     RI3 WITH R3,;
     WI3 WITH W3
REPL SI3 WITH S3,;
     LANGUAGE4 WITH OL4,;
     RI4 WITH R4,;
     WI4 WITH W4,;
     SI4 WITH S4
CLEAR
REIN
RETURN
```

```
**********************UPD02 COMM FILE**********************
***A MODULE OF THE UPD01 PROGRAM
DO CASE
 case kppu = 1
  @3,30 GET PERA PICT '@X'
  read
  @6,30 GET PERPIN PICT '999999'
 case kppu = 2
  @6,66 GET PERP PICT '9999999'
  read
 case kppu = 3
  COM=' '
  DO WHILE .NOT. COM $ '123'
   COM=' '
   @8,25 GET COM
   READ
  ENDDO
 case kppu = 4
  exs=' '
  do while .not. exs $ '12'
   exs=' '
   @8,49 get exs
   read
  enddo
 case kppu = 5
  des='    '
  do while .t.
   DES='    '
   @10,22 get des
   read
   use desig inde desig
   rein
   if des = ' '
    @21,0 say 'Enter the correct code'
    loop
   endif
   find &des
   @21,0 clear
   if eof()
    @21,0 say 'Enter the correct code'
    loop
   else
    exit
   endif
  enddo
 case kppu = 6
  @12,21 get dep
  read
 case kppu=7
  @14,20 get bpay
  read
 case kppu=8
  do while .t.
   @14,38 get dofd PICT 'E'
   read
   if dofd > date() .or. dofd = ctod('  /  /  ');
   .or. (year(dofd) < year(dofb))
    @21,0 say 'This date is invalid'
    loop
   else
    exit
   endif
  enddo
  @21,0 CLEA
 CASE KPPU=9
```

```
 DO WHILE .T.
  @16,21 GET OL1
  READ
  USE LANGUAGE INDE LANGUAGE
  FIND &OL1
  IF EOF()
   @21,0 SAY 'INVALID LANGUAGE CODE'
   LOOP
  ELSE
   EXIT
  ENDIF
 ENDDO
 @21,0 CLEAR
 R1=' '
 DO WHILE .NOT. R1 $ '12 '
  R1=' '
  @16,30 GET R1
  READ
 ENDDO
 W1=' '
 DO WHILE .NOT. W1 $ '12 '
  W1=' '
  @16,39 GET W1
  READ
 ENDDO
 S1=' '
 DO WHILE .NOT. S1 $ '12 '
  S1=' '
  @16,48 GET S1
  READ
 ENDDO
CASE KPPU=10
 OL2='  '
 DO WHILE .T.
  @17,21 GET OL2
  READ
  USE LANGUAGE INDE LANGUAGE
  FIND &OL2
  IF EOF()
   @21,0 SAY 'INVALID LANGUAGE CODE'
   LOOP
  ELSE
   EXIT
  ENDIF
 ENDDO
 @21,0 CLEAR
 R2=' '
 DO WHILE .NOT. R2 $ '12 '
  R2=' '
  @17,30 GET R2
  READ
 ENDDO
 W2=' '
 DO WHILE .NOT. W2 $ '12 '
  W2=' '
  @17,39 GET W2
  READ
 ENDDO
 S2=' '
 DO WHILE .NOT. S2 $ '12 '
  S2=' '
  @17,48 GET S2
  READ
 ENDDO
CASE KPPU=11
 OL3='  '
 DO WHILE .T.
  @18,21 GET OL3
  READ
  USE LANGUAGE INDE LANGUAGE
  FIND &OL3
  IF EOF()
```

```
    @21,0 SAY 'INVALID LANGUAGE CODE'
    LOOP
   ELSE
    EXIT
   ENDIF
  ENDDO
  @21,0 CLEAR
  R3=' '
  DO WHILE .NOT. R3 $ '12 '
   R3=' '
   @18,30 GET R3
   READ
  ENDDO
  W3=' '
  DO WHILE .NOT. W3 $ '12 '
   W3=' '
   @18,39 GET W3
   READ
  ENDDO
  S3=' '
  DO WHILE .NOT. S3 $ '12 '
   S3=' '
   @18,48 GET S3
   READ
  ENDDO
 CASE KPPU=12
  OL4='  '
  DO WHILE .T.
   @19,21 GET OL4
   READ
   USE LANGUAGE INDE LANGUAGE
   FIND &OL4
   IF EOF()
    @21,0 SAY 'INVALID LANGUAGE CODE'
    LOOP
   ELSE
    EXIT
   ENDIF
  ENDDO
  @21,0 CLEAR
  R4=' '
  DO WHILE .NOT. R4 $ '12 '
   R4=' '
   @19,30 GET R4
   READ
  ENDDO
  W4=' '
  DO WHILE .NOT. W4 $ '12 '
   W4=' '
   @19,39 GET W4
   READ
  ENDDO
  S4=' '
  DO WHILE .NOT. S4 $ '12 '
   S4=' '
   @19,48 GET S4
   READ
  ENDDO
ENDCASE
RETURN
```

```
**********************UPDQB COMM FILE**********************
***FOR UPDATING THE EUDINF FILE
set talk off
store emp_code to esc
store idno to id
store QUALIFICAT to QUA
store Q_YEAR to YR
store Q_BOARD to INST
store Q_DIV to DIV
STORE Q_RANK to  RNK
Store Q_COURSE to COUR
Store SUBJECT1 to SUB1
store SUBJECT2 to SUB2
store SUBJECT3 to SUB3
Store SUBJECT4 to SUB4
store FI_OF_SPEC to FOFSP
CLEAR
@1,35 say 'EDUCATIONAL INFORMATION RECORD'
@1,0 SAY TIME()
@1,11 SAY 'RECNO:'+STR(R,5)
@1,70 SAY DATE() PICT '@E'
@2,0 TO 20,78 DOUBLE
@4,2 say '(1)  Employee sector code : '+esc
@4,40 say 'Identification no. : '+id
@6,2 say '(2)  Qualification code : '+qua
@6,40 say '(3)  Year : '+yr
@8,2 say '(4)  Institution : '+inst
@10,2 say '(5)  Division : '+div
@10,40 say '(6)  Rank : '+rnk
@12,2 say '(7)  Course : '+cour
@14,2 say '(8)  Subject1 : '+sub1
@14,45 say 'Subject2 : '+sub2
@16,2 say '(9)  Subject3 : '+sub3
@16,45 say 'Subject4 : '+sub4
@18,2 say '(10) Field of Specialization : '+fofsp
YES = 'Y'
DO WHILE UPPER(YES) = 'Y'
 APPU='  '
 @21,0 SAY 'Which field do you want to update ?'
 @22,0 say 'Enter your choice from above displayed e.g. 1,2,3,.....,10'
 @23,0 say 'Enter field no. : ' get APPU PICT '99'
 READ
 APPU = VAL(APPU)
 @21,0 CLEAR
 DO CASE
  CASE APPU = 1
   ESC=' '
   DO WHILE .NOT. ESC $ '1234'
    @4,30 get esc pict '9'
    read
   ENDDO
  CASE APPU = 2
   DO WHILE .T.
    QUA='  '
    @6,28 GET QUA
    READ
    USE QUAL INDE QUAL
    if QUA=' '
     loop
    endif
    FIND &QUA
    IF EOF()
     @21,0 SAY 'INVALID CODE: ENTER AGAIN'
     LOOP
    ELSE
     EXIT
```

```
  ENDIF
 ENDDO
CASE APPU = 3
 @6,52 GET YR PICT '99'
 READ
CASE APPU = 4
 @8,21 GET INST
 READ
CASE APPU = 5
 DO WHILE .T.
  @10,18 GET DIV
  READ
  USE DIVS INDE DIVS
  if div = ' '
   loop
  endif
  FIND &DIV
  IF EOF()
   @21,0 SAY 'INVALID CODE : ENTER AGAIN'
   LOOP
  ELSE
   EXIT
  ENDIF
 ENDDO
CASE APPU = 6
 @10,52 GET RNK
 READ
CASE APPU = 7
 DO WHILE .T.
  COUR='  '
  @12,16 GET COUR
  READ
  USE COUR INDE COUR
  if cour=' '
   loop
  endif
  FIND &COUR
  IF EOF()
   @21,0 SAY 'INVALID CODE : ENTER AGAIN'
   LOOP
  ELSE
   EXIT
  ENDIF
 ENDDO
CASE APPU = 8
 DO WHILE .T.
  SUB1='   '
  @14,18 GET SUB1
  READ
  SUB1=UPPE(SUB1)
  USE SUBJECT INDE SUBJECT
  if sub1=' '
   loop
  endif
  FIND &SUB1
  IF EOF()
   @21,20 SAY '   INVALID CODE  '
   LOOP
  ELSE
   EXIT
  ENDIF
 ENDDO
 @21,0 clea
 DO WHILE .T.
  SUB2='   '
  @14,56 GET SUB2
  READ
  SUB2=UPPE(SUB2)
  USE SUBJECT INDE SUBJECT
  IF SUB2=' '
   EXIT
  ENDIF
```

```
    FIND &SUB2
    IF EOF()
     @21,20 SAY '  INVALID CODE  '
     LOOP
    ELSE
     EXIT
    ENDIF
   ENDDO
  CASE APPU = 9
   DO WHILE .T.
    SUB3='   '
    @16,18 GET SUB3
    READ
    SUB3=UPPE(SUB3)
    USE SUBJECT INDE SUBJECT
    if sub3=' '
     EXIT
    endif
    FIND &SUB3
    IF EOF()
     @21,20 SAY 'INVALID CODE'
     LOOP
    ELSE
     EXIT
    ENDIF
   ENDDO
   @21,20 clear
   DO WHILE .T.
    SUB4='   '
    @16,56 GET SUB4
    READ
    SUB4=UPPE(SUB4)
    USE SUBJECT INDE SUBJECT
    if sub4=' '
     EXIT
    endif
    FIND &SUB4
    IF EOF()
     @21,20 SAY 'INVALID CODE'
     LOOP
    ELSE
     EXIT
    ENDIF
   ENDDO
  CASE APPU = 10
   DO WHILE .T.
    @18,33 GET FOFSP pict '99'
    READ
    USE FOFSP INDE FOFSP
    if fofsp=' '
     EXIT
    endif
    FIND &FOFSP
    IF EOF()
     @21,20 SAY 'INVALID CODE : ENTER AGAIN'
     LOOP
    ELSE
     EXIT
    ENDIF
   ENDDO
 ENDCASE
 @21,0 CLEA
 @21,0 SAY 'Do you want to change more fields ? (Y or N) : ' get YES PICT
 READ
 @21,0 CLEA
ENDDO
SELE 1
USE EUDINF inde EUDINF
GO R
REPLACE EMP_CODE WITH ESC,;
        QUALIFICAT WITH QUA,;
```

```
REPL Q_BOARD WITH INST,;
     Q_DIV WITH DIV,;
     Q_RANK WITH RNK,;
     Q_COURSE WITH COUR
REPL SUBJECT1 WITH SUB1,;
     SUBJECT2 WITH SUB2,;
     SUBJECT3 WITH SUB3,;
     SUBJECT4 WITH SUB4
REPL FI_OF_SPEC WITH FOFSP
CLEA
REIN
```

```
**********************UPDQC COMM FILE**********************
***FOR UPDATION OF THE TRAININF FILE
set talk off
store emp_code to esc
store idno to id
store T_CODE to TRCOR
store T_NAME to NTRCOR
store T_LEVEL to LTRCOR
store T_COUNTRY to COUNTR
STORE T_INSTITU to INSTITU
Store T_DURATIO to DUR
Store T_YEAR to YER
CLEAR
@1,35 say 'TRAINING INFORMATION RECORD'
@1,0 SAY TIME()
@1,11 SAY 'RECNO:'+STR(R,5)
@1,70 SAY DATE() PICT '@E'
@2,0 TO 20,78 DOUBLE
@4,2 say '(1)  Employee sector code : '+esc
@4,40 say 'Identification no. : '+id
@7,2 say '(2)  Nature of Training Course : '+trcor
@9,2 say '(3)  Name of Training : '+ntrcor
@11,2 say '(4)  Level of Course : '+ltrcor
@13,2 say '(5)  Name of country : '+countr
@15,2 say '(6)  Name of institution : '+institu
@17,2 say '(7)  Duration of Training : '+dur
@17,40 say '(8)  Year of Training : '+Yer
YES = 'Y'
DO WHILE UPPE(YES) = 'Y'
 APPU = ' '
 @21,0 SAY 'Which field do you want to update ?'
 @22,0 say 'Enter your choice from above displayed e.g. 1,2,3,.....,8'
 @23,0 say 'Enter field no. : ' GET APPU PICT '99'
 READ
 APPU = VAL(APPU)
 @21,0 CLEAR
 DO CASE
  CASE APPU = 1
   ESC=' '
   DO WHILE .NOT. ESC $ '1234'
    @4,30 GET ESC PICT '@9'
    READ
   ENDDO
  CASE APPU = 2
   do while .t.
    @7,35 get trcor pict '99'
    read
    if trcor=' '
     loop
    endif
    use train inde train
    find &trcor
    if eof()
     @21,20 say ' invalid code '
     loop
    else
     exit
    endif
   enddo
  CASE APPU = 3
   @9,26 get ntrcor
   READ
  CASE APPU = 4
   do while .t.
    @11,25 get ltrcor
```

```
      if ltrcor=
       loop
      endif
      if .NOT. LTRCOR $ '12'
       @21,20 say 'invalid code'
       loop
      else
       exit
      endif
     enddo
    CASE APPU = 5
     do while .t.
      @13,25 get countr
      read
      if countr=' '
       loop
      endif
      use country inde country
      find &countr
      if eof()
       @21,20 say ' invalid code'
       loop
      else
       exit
      endif
     enddo
    CASE APPU = 6
     @15,29 get institu
     READ
    CASE APPU = 7
     @17,30 get dur pict '99'
     READ
    CASE APPU = 8
     @17,64 get yer pict '99'
     read
  ENDCASE
  @21,0 CLEAR
  @21,0 SAY 'Do you want to change more fields ? (Y or N) : ' GET YES PICT
  READ
  @21,0 CLEAR
ENDDO
sele 1
use traininf inde traininf
go r
repl emp_code with esc,;
     t_code with trcor,;
     t_name with ntrcor,;
     t_level with ltrcor,;
     t_country with countr
repl t_institu with institu,;
     t_duratio with dur,;
     t_year with yer
clea
REIN
retu
```

```
**********UPDOD COMM FILE**********
***FOR THE UPDATION OF THE EXPERINF FILE
set talk off
store emp_code to esc
store idno to id
store DESIG_CODE to DESI
store PL_OF_POST to PROFP
store NA_OF_ORG to NOFO
store FI_OF_EXP to FOFE
STORE PER_FROM to PFROM
Store PER_TO to PTO
Store REPO_LEVEL to REPLE
STORE SCALE_CODE TO SCPAY
STORE RESPONSIB TO RESP
STORE ACHIEVE TO ACH
STORE RECH TO RCH
CLEAR
@1,35 say 'EXPERIENCE INFORMATION RECORD'
@1,0 SAY TIME()
@1,11 SAY 'RECNO:'+STR(R,5)
@1,70 SAY DATE() PICT '@E'
@2,0 TO 20,78 DOUBLE
@4,2 say '(1)  Employee sector code : '+esc
@4,40 say 'Identification no. : '+id
@6,2 say '(2)  Designation : '+desi
@8,2 say '(3)  Place of Posting : '+profp
@10,2 say '(4)  Name of Organisation : '+nofo
@12,2 say '(5)  Field of Experience : '+fofe
@12,35 say '(6) Period from(mmyy) : '+STR(PFROM,4)
@12,64 say 'to(mmyy) : '+STR(PTO,4)
@14,2 say '(7)  Scale of pay : '+SCPAY
@14,35 say '(8) Reporting level : '+REPLE
@16,2 say '(9)  Reason for change : '+rch
@17,2 say '(10) Responsibilities : '+resp
@18,2 say '(11) Achievements : '+ach
YES = 'Y'
DO WHILE UPPER(YES)='Y'
 APPU='  '
 @21,0 SAY 'Which field do you want to update ?'
 @22,0 say 'Enter your choice from above displayed e.g. 1,2,3,.....,11.'
 @23,0 say 'Enter the field no. : ' GET APPU PICT '99'
 READ
 APPU=VAL(APPU)
 @21,0 CLEAR
 DO CASE
  CASE APPU=1
   esc=' '
   do while .not. esc $ '1234'
    esc=' '
    @4,30 get esc pict '@9'
    read
   enddo
  CASE APPU=2
   do while .t.
    desi='      '
    @6,21 get desi
    read
    if desi = ' '
     loop
    endif
    use desig inde desig
    find &desi
    if eof()
     @21,0 say 'You must enter correct code'
     loop
```

```
      endif
     enddo
    CASE APPU=3
     @8,26 get profp
     READ
    CASE APPU=4
     @10,30 get nofo
     read
    CASE APPU=5
     do while .t.
      @12,29 get fofe pict '99'
      read
      if fofe=' '
       loop
      endif
      use fofsp inde fofsp
      find &fofe
      if eof()
       @21,20 say 'Error : Invalid code:'
       loop
      else
       exit
      endif
     enddo
    CASE APPU=6
     @12,59 get PFROM PICT '9999'
     read
     @2,75 get PTO PICT '9999'
     read
    CASE APPU=7
     do while .t.
      @14,22 get scpay
      read
      if scpay=' '
       @21,0 SAY 'YOU MUST ENTER THE CODE:'
       loop
      endif
      @21,0 CLEA
      use scale inde scale
      find &sCpay
      if eof()
       @21,20 say 'Error: invalid code'
       loop
      else
       exit
      endif
     enddo
    CASE APPU=8
     @14,57 get reple
     READ
    CASE APPU=9
     @16,27 get rch
     read
    CASE APPU=10
     @17,26 get resp
     read
    CASE APPU=11
     @18,22 get ach
     read
  ENDCASE
  @21,0 CLEAR
  @21,0 SAY 'Do you want to change more fields ? (Y or N) : ' GET YES PICT
  READ
  @21,0 CLEAR
ENDDO
use experinf inde experinf
go r
repl idno with id,;
     emp_code with esC,;
     desig_code with desi,;
     pa_of_org with pafo
```

```
        fi_of_exp with fofe,;
        per_from with pfrom,;
        per_to with pto
repl    repo_level with reple,;
        scale_code with scpay,;
        responsib with resp,;
        RECH WITH RCH,;
        achieve with ach
CLEA
REIN
retu
```

```
**********************UPDQE COMM FILE**********************
***FOR UPDATING THE MEMBERINF FILE
set talk off
store emp_code to esc
store idno to id
store PROF_BODY1 to NOFP
store PUBL_DET1 to ND
CLEAR
@1,35 say 'MEMBERSHIP INFORMATION RECORD'
@1,0 SAY TIME()
@1,11 SAY 'RECNO:'+STR(R,5)
@1,70 SAY DATE() PICT '@E'
@2,0 TO 20,78 DOUBLE
@4,2 say '(1)  Employee sector code : '+esc
@4,40 say 'Identification no. : '+id
@10,2 say '(2)  Name of Professional Body : '+nofp
@14,2 say '(3)  Publication details : '+nd
YES = 'Y'
DO WHILE UPPER(YES)='Y'
 APPU=' '
 @21,0 SAY 'Which field do you want to update ?'
 @22,0 say 'Enter your choice from above displayed e.g. 1,2, or 3.'
 @23,0 say 'Enter the field no. : ' GET APPU PICT '99'
 READ
 APPU=VAL(APPU)
 @21,0 CLEAR
 DO CASE
  CASE APPU=1
   esc=' '
   do while .not. esc $ '1234'
    esc=' '
    @4,30 get esc pict '@9'
    read
   enddo
  CASE APPU=2
   @10,35 get nofp
   READ
  CASE APPU=3
   @14,29 get nd
   read
 ENDCASE
 @21,0 CLEAR
 @21,0 SAY 'Do you want to change more fields ? (Y or N) : ' GET YES PICT
 READ
 @21,0 CLEAR
ENDDO
use memberinf inde memberinf
go r
repl emp_code with esc,;
     prof_body1 with nofp,;
     publ_det1 with nd
clea
REIN
retu
```

```
**********************UPDQF COMM FILE**********************
***FOR THE UPDATION OF THE PROMINF FILE
set talk off
store emp_code to esc
store idno to id
store NATOFPOST to NOFPO
store SPECIFY to SPNAME
store SAME_OT to ANYOT
store DESP_EXP to DBE
STORE REMARKS to AREM
Store REF1 to REFE1
Store REF2 to REFE2
STORE ANY_OTHER TO SCPAY
CLEAR
@1,35 say 'PROMOTIONAL INFORMATION RECORD'
@1,0 SAY TIME()
@1,11 SAY 'RECNO:'+STR(R,5)
@1,70 SAY DATE() PICT '@E'
@2,0 TO 20,78 DOUBLE
@4,2 say '(1)  Employee sector code : '+esc
@4,40 say 'Identification no. : '+id
@7,2 say '(2)  Nature of Post : '+nofpo
@7,30 say 'If 2, specify Name : '+spname
@9,2 say '(3)  Same or other : '+ANYOT
@11,2 SAY '(4)  Experience and Background : '+DBE
@14,2 SAY '(5)  Remarks : '+AREM
@16,2 SAY '(6)  Reference 1 : '+REFE1
@18,2 SAY '(7)  Reference 2 : '+REFE2
YES = 'Y'
DO WHILE UPPER(YES)='Y'
 APPU='  '
 @21,0 SAY 'Which field do you want to update ?'
 @22,0 say 'Enter your choice from above displayed e.g. 1,2,3,.....,7.'
 @23,0 say 'Enter the field no. : ' GET APPU PICT '99'
 READ
 APPU=VAL(APPU)
 @21,0 CLEAR
 DO CASE
  CASE APPU=1
   esc=' '
   do while .not. esc $ '1234'
    esc=' '
    @4,30 get esc pict '@9'
    read
   enddo
  CASE APPU=2
   nofpo=' '
   do while .not. nofpo $ '12'
    nofpo=' '
    @7,24 get nofpo
    read
   enddo
   if nofpo='2'
    @7,51 get spname
   endif
  CASE APPU=3
   if esc='1'
    anyot=' '
    do while .not. anyot $ '12'
     anyot=' '
     @9,23 get anyot pict '@9'
     read
    enddo
   ELSE
    @21,0 SAY 'The empl. sector code is not public sector type'
```

```
   ENDIF
   CASE APPU=4
    @11,35 GET DBE
    READ
   CASE APPU=5
    @14,17 GET AREM
    READ
   CASE APPU=6
    @16,21 GET REFE1
    READ
   CASE APPU=7
    @18,21 GET REFE2
    READ
  ENDCASE
  @21,0 CLEAR
  @21,0 SAY 'Do you want to change more fields ? (Y or N) : ' GET YES PICT
  READ
  @21,0 CLEAR
ENDDO
use prominf inde prominf
go r
repl emp_code with esc
repl specify with spname,;
     desp_exp with dbe,;
     remarks with arem,;
     ref1 with refe1
repl ref2 with refe2,;
     natofpost with nofpo,;
     emp_code with esc,;
     same_ot with anyot
CLEA
REIN
return
```

```
**********VALIDATE COMM FILE**********
***FOR VALIDATING THE RECORDS ENTERED' LATEST
set talk off
clear
close all
run date
clea
@10,10 SAY 'PLEASE CONNECT THE PRINTER'
WAIT
CLEA
***CHECK RECORD NO. FROM WHERE ENTRY WAS DONE
SELE 6
USE VALIDN
RENO=RECN
FNAME=FNAM
DO CASE
 CASE FNAME='1'
   DO INPVAL
 CASE FNAME='2'
   DO INPV2
 CASE FNAME='3'
   DO INPV3
 CASE FNAME='4'
   DO INPV4
 CASE FNAME='6'
   DO INPV6
ENDCASE
SELE 6
***SET THE FLAG SO THAT IT DOES NOT GO FOR VALIDATION
****AT THE INSTANCE WHILE STARTING THE SYSTEM
USE VALIDN
REPL FLGG WITH .F.
CLEA
CLOSE ALL
do rein
clea
CLOSE ALL
RETU
```

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```
---------------------- PROGRAM NUMBER :    1 ---------------------- FOR CBEC

*****************C B E C  MAIN PROGRAM*******************
***THE MAIN PROGRAM FOR Central Board of Excise & Customs'
****BIO-DATA INFORMATION SYSTEM
SET STAT OFF
set talk off
set bell off
set echo off
SET SCOREBOARD OFF
CLEAR ALL
SELE 6
USE VALIDD
IF FLGG
 DO VALIDATE
ENDIF
CLEAR ALL
set print off
SET DEVI TO SCRE
CLEA
CHOICE=' '
PUBL IDEA
IDEA=' '
SET TALK off
DO WHILE .NOT. CHOICE $ '12345'
 CHOICE=' '
 @ 1,23 SAY 'BIO DATA INFORMATION SYSTEM'
 @ 3,30 SAY 'FOR  C B E C'
 SET COLO TO *W
 @ 5,28 SAY 'DEVELOPED BY NIC'
 SET COLO TO W
*****************BOX PROGRAM*******************
C=220
C2=221
C4=222
C6=223
@ 6,5 SAY REPL(CHR(C),67)
@ 7,5 SAY REPL(CHR(C),67)
@ 8,5 SAY REPL(CHR(C),67)
@ 20,5 SAY REPL(CHR(C6),67)
*************************************************
 @ 7,17 SAY ' M E N U  S E L E C T I O N  O P T I O N S '
 @ 10,13 SAY '1.--ENTER,UPDATE AND DELETE DATA RECORDS'
 @ 12,13 SAY '2.--PROCESSING OF QUERIES'
 @ 14,13 SAY '3.--GENERATING REPORTS'
 @ 16,13 SAY '4.--LISTING OF CODE DIRECTORIES'
 @ 18,13 SAY '5.--QUIT FROM THE SYSTEM'
 X=7
 DO WHILE X < 20
  @ X,70 SAY CHR(222)
  @ X,71 SAY CHR(222)
  @ X,5 SAY CHR(C2)
  @ X,6 SAY CHR(C2)
  X=X+1
 ENDDO
 @ 22,13 SAY 'MAKE YOUR CHOICE FROM 1, 2, 3, 4, 5 : '
 @ 22,51 GET CHOICE PICT '!'
 READ
 DO CASE
  CASE CHOICE = '1'
    DO EDUMENU
  CASE CHOICE = '2'
    DO QURMENU
  CASE CHOICE= '3'
    DO COMPLET
  CASE CHOICE ='4'
    DO DIRECTR
  CASE CHOICE='5'
```

```
    SET TALK ON
    CLEA
    EXIT
  ENDCASE
  IF CHOICE # '1' .OR. IDEA # '1'
    CHOICE = ' '
  ENDIF
ENDDO
CLEAR ALL
SET SCOREBOARD ON
```

```
---------- PROGRAM NUMBER :    2 ---------- FOR CBEC

*****************COMPL1 PROGRAM*******************
SET TALK OFF
CLOSE ALL
CLEAR
SELE 4
USE DESIG INDE DESIG
SELE 3
USE REPO1 INDE REPO1
SET SAFETY OFF
ZAP
SET SAFETY ON
SELE 2
USE APPTCONF INDE APPTCONF
SELE 1
USE PERSRECD INDE PERSRECD
SET ALTERNATE TO REPORT1.TXT
SET ALTERNATE ON
? 'N.I.C.  REPORT 1.                    SENIORITY LIST OF C.B.E.C.',',    ',DTO
?
? REPL('*',78)
? 'S.No.  ','NAME',SPACE(36),'DATE OF ','DATE OF APPOINT./'
? SPACE(49),'BIRTH    PROMOT. IN JTS'
? REPL('-',78)
? SPACE(10),'PRESENT POST ',SPACE(13),'SCALE OF PAY ',' BASIC PAY ',' SP
? REPL('*',78)
set date ansi
DO WHILE .NOT. EOF()
 IDNO=IDCODE
 RANK=RANKPR
 LNAM=LTNAME
 FNAM=FMNAME
 DOB=DOFBTH
 PPOS=PREPOS
 SPAY=SCLPAY
 BPAY=BASPAY
 SPPY=SPPRPY
 SELE 2
 GO TOP
 SEEK IDNO
 DO WHILE IDCODE=IDNO
  IF SLCODE='1'
   DGO=DTGOVT
   NAFT=NDNAFT
   SELE 3
   APPE BLAN
   REPL RANKPR WITH RANK,;
    LTNAME WITH LNAM,;
    FMNAME WITH FNAM,;
    DOFBTH WITH DOB,;
    PREPOS WITH PPOS
   REPL SCLPAY WITH SPAY,;
    BASPAY WITH BPAY,;
    SPPRPY WITH SPPY,;
    DTGOVT WITH DGO,;
    NDNAFT WITH NAFT
   EXIT
  ENDIF
  SELE 2
  SKIP
 ENDDO
 SELE 1
 SKIP
ENDDO
set date brit
SELE 3
BEIN
```

```
 PNO=1
 SNO=1
 DO WHILE .NOT. EOF()
  PNAME=LEFT(RANKPR,3)+' '+TRIM(LTNAME)+' '+TRIM(FMNAME)
  LPN=40-LEN(PNAME)
  ? STR(SNO,5),' ',PNAME,SPACE(LPN),DTOC(DOFBTH),' ',DTOC(DTGOVT),' '
  IF NDNAFT='1'
   ?? 'FN'
  ELSE
   IF NDNAFT='2'
    ?? 'AN'
   ENDIF
  ENDIF
  PRE_POS=PREPOS
  SELE 4
  GO TOP
  SEEK PRE_POS
  IF FOUND()
   PPOS=DESCRP
  ELSE
   PPOS=SPACE(30)
  ENDIF
  PPOS=LEFT(PPOS,27)
  SELE 3
  ? SPACE(10),PPOS,' ',SCLPAY,' ',BASPAY,SPACE(6),SPPRPY
  ?
  SNO=SNO+1
  PNO=PNO+2
  IF PNO > 50
   PNO=1
   ? '.OP'
  ENDIF
  SKIP
 ENDDO
 ? REPL('*',78)
 SET ALTERNATE OFF
 SET ALTERNATE TO
 SELE 3
 SET SAFETY OFF
 ZAP
 SET SAFETY ON
 CLOSE ALL
 RETU
```

```
---------------------- PROGRAM NUMBER :    3 ---------------------- FOR CBEC

**********COMPL2 PROGRAM**********
CLOSE ALL
SET TALK OFF
CLEAR
RUN DATE
CLEAR
SELE 4
USE DESIG INDE DESIG
SELE 1
USE PERSRECD INDE PERSRETR
SET ALTERNATE TO REPORT2.TXT
SET ALTERNATE ON
? 'N.I.C.    REPORT 2.                    LIST OF OFFICERS OF C.B.E.C. RETIRING
?
? REPL('*',100)
? 'S.No. ','ID.No. ','NAME',SPACE(36),'DATE OF BIRTH','   PRESENT POST'
? REPL('*',100)
SNO=1
GO TOP
DO WHILE .NOT. EOF()
 YRDIFF=YEAR(DATE())-YEAR(DOFBTH)
 IF YRDIFF<57
  EXIT
 ENDIF
 IF YRDIFF=57
  IF SNO=1
   ? 'IN '+CMONTH(DOFBTH)
   ?
  ELSE
   IF .NOT. MONTH(DOFBTH)=MUNTH
    ? 'IN '+CMONTH(DOFBTH)
    ?
   ENDIF
  ENDIF
  MUNTH=MONTH(DOFBTH)
  PNAME=LEFT(RANKPR,3)+' '+TRIM(LTNAME)+' '+TRIM(FMNAME)
  LPN=42-LEN(PNAME)
  PRE_POS=PREPOS
  SELE 4
  GO TOP
  SEEK PRE_POS
  IF FOUND()
   PPOS=DESCRP
  ELSE
   PPOS=SPACE(30)
  ENDIF
  SELE 1
  ? STR(SNO,5),'   ',IDCODE,'',PNAME,SPACE(LPN),DTOC(DOFBTH),'   ',PPOS
  ?
  SNO=SNO+1
 ENDIF
 SKIP
ENDDO
? REPL('*',100)
SET ALTERNATE OFF
SET ALTERNATE TO
CLOSE ALL
RETU
```

---------- PROGRAM NUMBER : 4 ---------- FOR CBEC

```
**********COMPL3 PROGRAM**********
CLOSE ALL
SET TALK OFF
CLEAR
SELE 4
USE DESIG INDE DESIG
SELE 3
USE EMPANEL INDE EMPANEL
SELE 1
USE PERSRECD INDE PERSPOST
SET ALTERNATE TO REPORT3.TXT
SET ALTERNATE ON
? 'N.I.C.   REPORT 3.                    THE EMPANELMENT LIST OF C.B.E.C. OFFIC
?
? REPL('*',130)
? 'S.No. ','ID.No.   ','NAME',SPACE(36),'PRESENT POST',SPACE(20),'POST FOR
? SPACE(93),'POST',SPACE(14),'YEAR'
? REPL('*',130)
SNO=1
GO TOP
DO WHILE .NOT. EOF()
 PNAME=LEFT(RANKPR,3)+' '+TRIM(LTNAME)+' '+TRIM(FMNAME)
 LPN=40-LEN(PNAME)
 EMP_COD=EMPCOD
 PRE_POS=PREPOS
 if .not. emp_cod=' '
  SELE 3
  GO TOP
  SEEK EMP_COD
  IF FOUND()
   EPOS=DESCRP
  ELSE
   EPOS=SPACE(9)
  ENDIF
  SELE 4
  GO TOP
  SEEK PRE_POS
  IF FOUND()
   PPOS=DESCRP
  ELSE
   PPOS=SPACE(30)
  ENDIF
  SELE 1
  ? STR(SNO,5),'   ',IDCODE,' ',PNAME,SPACE(LPN),LEFT(PPOS,32),' ',EPOS,SPA
  ?
  SNO=SNO+1
 endif
 SKIP
ENDDO
? REPL('*',130)
SET ALTERNATE OFF
SET ALTERNATE TO
CLOSE ALL
RETU
```

```
---------- PROGRAM NUMBER :    4 ---------- FOR CBEC

**********COMPL3 PROGRAM**********
CLOSE ALL
SET TALK OFF
CLEAR
SELE 4
USE DESIG INDE DESIG
SELE 3
USE EMPANEL INDE EMPANEL
SELE 1
USE PERSRECD INDE PERSPOST
SET ALTERNATE TO REPORT3.TXT
SET ALTERNATE ON
? 'N.I.C.    REPORT 3.                    THE EMPANELMENT LIST OF C.B.E.C. OFFI
?
? REPL('*',130)
? 'S.No.  ','ID.No.   ','NAME',SPACE(36),'PRESENT POST',SPACE(20),'POST FOR
? SPACE(93),'POST',SPACE(14),'YEAR'
? REPL('*',130)
SNO=1
GO TOP
DO WHILE .NOT. EOF()
 PNAME=LEFT(RANKPR,3)+' '+TRIM(LTNAME)+' '+TRIM(FMNAME)
 LPN=40-LEN(PNAME)
 EMP_COD=EMPCOD
 PRE_POS=PREPOS
 if .not. emp_cod=' '
  SELE 3
  GO TOP
  SEEK EMP_COD
  IF FOUND()
   EPOS=DESCRP
  ELSE
   EPOS=SPACE(9)
  ENDIF
  SELE 4
  GO TOP
  SEEK PRE_POS
  IF FOUND()
   PPOS=DESCRP
  ELSE
   PPOS=SPACE(30)
  ENDIF
  SELE 1
  ? STR(SNO,5),'   ',IDCODE,' ',PNAME,SPACE(LPN),LEFT(PPOS,32),'',EPOS,SPA
  ?
  SNO=SNO+1
 endif
 SKIP
ENDDO
? REPL('*',130)
SET ALTERNATE OFF
SET ALTERNATE TO
CLOSE ALL
RETU
```

```
---------- PROGRAM NUMBER :    5 ---------- FOR CBEC

**********COMPL4 PROGRAM**********
CLOSE ALL
SET TALK OFF
CLEAR
SELE 4
USE DESIG INDE DESIG
SELE 1
USE PERSRECD INDE PERSRECD
DO WHILE .T.
 NTRN='  '
 @10,10 SAY 'Which training field do you want to list out the officers fo
 @11,20 SAY 'Give the code for name of the training : ' GET NTRN PICT '99
 READ
 CLEA
 CTRN=' '
 DO WHILE .NOT. CTRN $ '123'
  @10,10 SAY 'Do you want officers trained in 1) India, or 2) Abroad, or
  @11,20 SAY 'Give choice of 1,2,or 3 : ' GET CTRN PICT '9'
  READ
 ENDDO
 CLEA
 SELE 5
 IF CTRN='1'
  USE TRAIN INDE TRAIN
 ELSE
  USE ATRAIN INDE ATRAIN
 ENDIF
 SEEK NTRN
 IF FOUND()
  TRN_NAME=DESCRP
  EXIT
 ELSE
  ANS='  '
  @10,10 SAY 'NO SUCH TRAINING NAME CODE EXISTS : '+NTRN
  @12,10 SAY 'Do you want a list of training courses (Y or N) : ' GET ANS
  READ
  CLEA
  IF UPPE(ANS)='Y'
   LIST
  ENDIF
  CLEA
  ANS='  '
  @10,10 SAY 'Do you want to try again (Y or N) : ' GET ANS
  READ
  IF .NOT. UPPE(ANS)='Y'
   CLOSE ALL
   RETU
  ENDIF
 ENDIF
ENDDO
SET ALTERNATE TO REPORT4.TXT
SET ALTERNATE ON
? 'N.I.C.    REPORT 4.                    LIST OF C.B.E.C. OFFICERS WHO HAD TRA
SELE 2
IF CTRN='1'
 ?? 'IN INDIA'
 DUR=.T.
 TRN_FIEL='NATTRN'
 LEV_FIEL='LEVCOR'
 INS_FIEL='INSTIT'
 DUR_FIEL='DURATN'
 YER_FIEL='TRYEAR'
 USE TRANCOUR INDE TRANITRN
ELSE
 IF CTRN='2'
  ?? 'ABROAD'
```

```
   ?? 'IN INDIA & ABROAD'
  ENDIF
  DUR=.F.
  TRN_FIEL='NTRAIN'
  LEV_FIEL='LVLCOR'
  INS_FIEL='INSTTN'
  DUR_FIEL='DURWKS'
  YER_FIEL='TRGYER'
  USE TRABROAD INDE TRANATRN
 ENDIF
 ?? '      ',DTOC(DATE())
 ? SPACE(38),'IN '+TRN_NAME
 ?
 ? REPL('*',130)
 ? 'S.No.  ','ID.No.    ','NAME',SPACE(36),'PRESENT POST'
 ?? SPACE(16),'LEVEL OF TRAINING','   ','INSTITUTION',SPACE(32),'DURATION'
 IF DUR
  ?? '(DAYS)  '
 ELSE
  ?? '(WEEKS)'
 ENDIF
 ?? '    ','YEAR'
 ? REPL('*',130)
 SNO=1
 SEEK NTRN
 DO WHILE (&TRN_FIEL=NTRN .AND. (.NOT. EOF()))
  IDNO=IDCODE
  SELE 1
  GO TOP
  SEEK IDNO
  PNAME=LEFT(RANKPR,3)+' '+TRIM(LTNAME)+' '+TRIM(FMNAME)
  LPN=40-LEN(PNAME)
  T_PREPOS=PREPOS
  SELE 4
  GO TOP
  SEEK T_PREPOS
  IF FOUND()
   PPOS=DESCRP
  ELSE
   PPOS=SPACE(30)
  ENDIF
  ? STR(SNO,5),'   ',IDNO,' ',PNAME,SPACE(LPN),PPOS
  SELE 2
  IF &LEV_FIEL='1'
   LEVEL='BASIC   '
  ELSE
   LEVEL='ADVANCE'
  ENDIF
  ? SPACE(18),LEVEL,SPACE(10),&INS_FIEL,SPACE(6),&DUR_FIEL,SPACE(13),&YER_F
  ?
  SNO=SNO+1
  SKIP
 ENDDO
 ? REPL('*',130)
 SET ALTERNATE OFF
 SET ALTERNATE TO
 CLOSE ALL
 RETU
```

```
---------- PROGRAM NUMBER :    6 ---------- FOR CBEC

**********COMPL5 PROGRAM**********
CLOSE ALL
SET TALK OFF
CLEAR
RUN DATE
CLEA
SELE 5
USE DEPT INDE DEPT
SELE 4
USE DESIG INDE DESIG
SELE 3
USE COUNTRY INDE COUNTRY
SELE 2
USE HISTSERV INDE HISTSERV
SELE 1
USE PERSRECD INDE PERSPOST
YNUM='  '
@10,10 SAY 'Give the number of years that the officers are to be checked
@11,10 SAY ' working in the same department for more than that many numbe
@12,10 SAY ' of years : ' GET YNUM PICT '99'
READ
CLEA
SET ALTERNATE TO REPORT5.TXT
SET ALTERNATE ON
? 'N.I.C.    REPORT 5.                    LIST OF C.B.E.C. OFFICERS WORKING FOR
?
? REPL('*',130)
? 'S.No.  ','ID.No.   ','NAME',SPACE(36),'PRESENT POST',SPACE(20),'PLACE OF
? SPACE(15),'DEPARTMENT',SPACE(64),'FROM (MONTH, YEAR)'
? REPL('*',130)
SNO=1
YNUM=VAL(YNUM)
DO WHILE .NOT. EOF()
 IDNO=IDCODE
 SELE 2
 GO TOP
 SEEK IDNO
 IF FOUND()
  DO WHILE IDCODE=IDNO
   IF YEARTO='  '
    YRDIFF=(VAL(RIGHT(DTOC(DATE()),2))-VAL(YRFROM))+((MONTH(DATE())-VAL(M
    IF YRDIFF > YNUM
     SR_POST=SRPOST
     SR_CNTY=SRCNTY
     CITY=SRCITY
     SR_DEPT=SRDEPT
     YRFR=YRFROM
     MTFR=MTFROM
     SELE 3
     GO TOP
     SEEK SR_CNTY
     IF FOUND()
      CNTY=LEFT(DESCRP,20)
     ELSE
      CNTY=SPACE(20)
     ENDIF
     SELE 4
     GO TOP
     SEEK SR_POST
     IF FOUND()
      POST=LEFT(DESCRP,33)
     ELSE
      POST=SPACE(33)
     ENDIF
     SELE 5
```

```
      SEEK SR_DEPT
      IF FOUND()
       DEPM=DESCRP
      ELSE
       DEPM=SPACE(75)
      ENDIF
      SELE 1
      PNAME=LEFT(RANKPR,3)+' '+TRIM(LTNAME)+' '+TRIM(FMNAME)
      LPN=40-LEN(PNAME)
      ? STR(SNO,5),'  ',IDCODE,' ',PNAME,SPACE(LPN),POST,'  ',CNTY,'  ',CIT
      ? SPACE(15),DEPM,'  ',MTFR,'',YRFR
      ?
      SNO=SNO+1
      EXIT
     ENDIF
    ENDIF
    SELE 2
    SKIP
   ENDDO
  ENDIF
  SELE 1
  SKIP
ENDDO
? REPL('*',130)
SET ALTERNATE OFF
SET ALTERNATE TO
CLOSE ALL
RETU
```

```
**********COMPL6 PROGRAM**********
CLOSE ALL
SET TALK OFF
CLEAR
SELE 3
USE SCALE INDE SCALE
SELE 2
USE APPTCONF INDE APPTCONF
SELE 1
USE PERSRECD INDE PERSPOST
SNUM=0
@10,10 SAY 'Give the scale code of the officers that you want to list out
READ
CLEA
SNUM=STR(SNUM,1)
SELE 3
SEEK SNUM
SDESC=DESCRP
SET ALTERNATE TO REPORT6.TXT
SET ALTERNATE ON
? 'N.I.C.   REPORT 6.                    LIST OF C.B.E.C. OFFICERS WORKING IN
?
? REPL('*',130)
? 'S.No. ','ID.No.  ','NAME',SPACE(36),'APPOINT./PROMOT.',' ','FN/AN'
? SPACE(57),'(YEAR,MONTH,DAY)'
? REPL('*',130)
SNO=1
SELE 1
DO WHILE .NOT. EOF()
 IDNO=IDCODE
 SELE 2
 GO TOP
 SEEK IDNO
 IF FOUND()
  DO WHILE IDCODE=IDNO
   SKIP
  ENDDO
  SKIP -1
  IF SLCODE=SNUM
   DG01=STR(YEAR(DTGOVT),4)
   DG02=STR(MONTH(DTGOVT),2)
   DG03=STR(DAY(DTGOVT),2)
   IF NDNAFT='1'
    NAFT='FN'
   ELSE
    IF NDNAFT='2'
     NAFT='AN'
    ENDIF
   ENDIF
   SELE 1
   PNAME=LEFT(RANKPR,3)+' '+TRIM(LTNAME)+' '+TRIM(FMNAME)
   LPN=40-LEN(PNAME)
   ? STR(SNO,5),'  ',IDCODE,' ',PNAME,SPACE(LPN),DG01,'',DG02,'',DG03,'
   ?
   SNO=SNO+1
  ENDIF
 ENDIF
 SELE 1
 SKIP
ENDDO
? REPL('*',130)
SET ALTERNATE OFF
SET ALTERNATE TO
CLOSE ALL
RETU
```

```
---------- PROGRAM NUMBER :    8 ---------- FOR'CBEC

**********COMPL7 PROGRAM**********
CLOSE ALL
SET TALK OFF
CLEAR
SELE 5
USE DEPT INDE DEPT
SELE 4
USE DESIG INDE DESIG
SELE 3
USE COUNTRY INDE COUNTRY
SELE 2
USE HISTSERV INDE HISTSERV
SELE 1
USE PERSRECD INDE PERSPOST
SET ALTERNATE TO REPORT7.TXT
SET ALTERNATE ON
? 'N.I.C.    REPORT 7.                    LIST OF C.B.E.C. OFFICERS WHO ARE POST
?
? REPL('*',130)
? 'S.No.  ','ID.No.   ','NAME',SPACE(36),'PRESENT POST',SPACE(20),'PLACE OF
? SPACE(15),'DEPARTMENT',SPACE(64),'FROM (MONTH, YEAR)'
? REPL('*',130)
SNO=1
DO WHILE .NOT. EOF()
 IDNO=IDCODE
 SELE 2
 GO TOP
 SEEK IDNO
 IF FOUND()
  DO WHILE IDCODE=IDNO
   IF (YEARTO='    ' .AND. (.NOT.(SRCNTY='    ')))
    SR_POST=SRPOST
    SR_CNTY=SRCNTY
    CITY=SRCITY
    SR_DEPT=SRDEPT
    YRFR=YRFROM
    MTFR=MTFROM
    SELE 3
    GO TOP
    SEEK SR_CNTY
    IF FOUND()
     CNTY=LEFT(DESCRP,20)
    ELSE
     CNTY=SPACE(20)
    ENDIF
    SELE 4
    GO TOP
    SEEK SR_POST
    IF FOUND()
     POST=LEFT(DESCRP,33)
    ELSE
     POST=SPACE(33)
    ENDIF
    SELE 5
    GO TOP
    SEEK SR_DEPT
    IF FOUND()
     DEPM=DESCRP
    ELSE
     DEPM=SPACE(75)
    ENDIF
    SELE 1
    PNAME=LEFT(RANKPR,3)+'  '+TRIM(LTNAME)+'  '+TRIM(FMNAME)
    LPN=40-LEN(PNAME)
    ? STR(SNO,5),'   ',IDCODE,'  ',PNAME,SPACE(LPN),POST,'   ',CNTY,'   ',CIT
```

```
    ?
     SNO=SNO+1
    ENDIF
    SELE 2
    SKIP
   ENDDO
  ENDIF
  SELE 1
  SKIP
ENDDO
? REPL('*',130)
SET ALTERNATE OFF
SET ALTERNATE TO
CLOSE ALL
RETU
```

---------- PROGRAM NUMBER : 9 ---------- FOR CBEC

```
**********COMPLET PROGRAM**********
SET TALK OFF
clear
which=0
do while .not. which=8
 clea
 @3,5 say 'REPORTS MENU'
 @4,5 SAY '------------'
 @6,5 say 'Press 1 > for seniority list (on the basis of post & date of j
 @7,5 say 'Press 2 > for list of officers who will retire next year.'
 @8,5 SAY 'Press 3 > for the empanelment list.'
 @9,5 SAY 'Press 4 > for list of officers who have got training in a part
 @10,5 SAY 'Press 5 > for list of officers who have been working in the s
 @11,15 say 'for more than some number of years.'
 @12,5 SAY 'Press 6 > for list of officers on the basis of scale code.'
 @13,5 SAY 'Press 7 > for list of officers who are posted abroad.'
 @14,5 say 'Press 8 > to return to previous menu'
 @16,5 say 'Enter your choice' get which PICT '9' range 1,8
 read
 do case
 case which=1
  do COMPL1
 case which=2
  do COMPL2
 CASE WHICH=3
  DO COMPL3
 CASE WHICH=4
  DO COMPL4
 CASE WHICH=5
  DO COMPL5
 CASE WHICH=6
  DO COMPL6
 CASE WHICH=7
  DO COMPL7
 ENDCASE
 if which<8
  wait
  clear
  swhich=str(which,1)
  @10,10 say 'The output has been stored in the file : REPORT'+swhich+'.'
  wait
 endif
ENDDO
CLEA
RELE WHICH,SWHICH
retu
```

```
**********DATMENU PROGRAM**********
***FOR SELECTION OF A PARTICULAR FILE FOR
****THE PURPOSE OF ENTRY, UPDATION, OR DELETION
CLEA
PUBLIC fname,ff
CLOSE DATABASES
HELLO = .t.
do while HELLO
 fname='  '
 @ 2,16 say 'DATA RECORD'
 IF IDEA = '1'
  SET COLO TO *W
 ENDIF
 @ 2,28 SAY 'ENTRY,'
 SET COLO TO W
 IF IDEA = '3'
  SET COLO TO *W
 ENDIF
 @ 2,34 SAY 'UPDATION,'
 SET COLO TO W
 IF IDEA = '2'
  SET COLO TO *W
 ENDIF
 @ 2,43 SAY 'DELETION '
 SET COLO TO W
 @ 2,52 SAY 'SELECTION MENU'
 @ 3,10 TO 21,70 DOUBLE
 @ 4,28 SAY 'INFORMATION FOR'
 @ 5,15 SAY '1--WHOLE BIO-DATA / PERSONNEL RECORD'
 @ 6,15 SAY '2--ACADEMIC QUALIFICATION'
 @ 7,15 SAY '3--EXTRA CURRICULAR ACTIVITIES'
 @ 8,15 SAY '4--LANGUAGES KNOWN'
 @ 9,15 SAY '5--DATE OF APPOINTMENT/CONFIRMATION'
 @ 10,15 SAY '6--TRAINING COURSES ATTENDED IN INDIA'
 @ 11,15 SAY '7--TRAINING COURSES ATTENDED ABROAD'
 @ 12,15 SAY '8--PARTICIPATION IN CONFERENCES/etc.'
 @ 13,15 SAY '9--HISTORY OF SERVICE'
 @ 14,14 SAY '10--PRESENT POST AND PAY'
 @ 15,14 SAY '11--REWARD / AWARD'
 @ 16,14 SAY '12--EMPANELMENT FOR US/DS/etc.'
 @ 18,15 SAY 'PRESS <RETURN> TO COME BACK TO PREVIOUS MENU'
 @ 19,15 SAY 'CHOOSE A NO. OR PRESS <RETURN> ' GET FNAME PICT '99'
 READ
 FNAME=VAL(FNAME)
 SELE 1
 DO CASE
  CASE FNAME=1
   FF= 'PERSONNEL RECORD FILE'
   USE PERSRECD INDE PERSRECD,PERSRETR,PERSPOST,PERSNAME
   HELLO = .F.
  CASE FNAME=2
   FF='ACADEMIC QUALIFICATION FILE'
   USE ACADQUAL INDE ACADQUAL
   HELLO = .F.
  CASE FNAME=3
   FF='EXTRA CURRICULAR ACTIVITIES FILE'
   USE EXTCRACT INDE EXTCRACT
   HELLO =.F.
  CASE FNAME=4
   FF='LANGUAGES KNOWN FILE'
   USE LANGKNON INDE LANGKNON
   HELLO=.F.
  CASE FNAME=5
   FF= 'DATE OF APPOINT./CONFIRM. FILE'
   USE APPTCONF INDE APPTCONF
```

```
  CASE FNAME=6
   FF='TRAINING COURSES (IN INDIA) FILE'
   USE TRANCOUR INDE TRANCOUR,TRANITRN
   HELLO = .F.
  CASE FNAME=7
   FF='TRAINING COURSES (ABROAD) FILE'
   USE TRABROAD INDE TRABROAD,TRANATRN
   HELLO= .F.
  CASE FNAME=8
   FF='PARTICIPATION IN CONFERENCES/etc. FILE'
   USE PARTINTN INDE PARTINTN
   HELLO=.F.
  CASE FNAME=9
   FF='HISTORY OF SERVICE FILE'
   USE HISTSERV INDE HISTSERV
   HELLO=.F.
  CASE FNAME=10
   FF='PRESENT POST AND PAY FILE'
   USE PERSRECD INDE PERSRECD,PERSRETR,PERSPOST,PERSNAME
   HELLO=.F.
  CASE FNAME=11
   FF='REWARD/AWARD FILE'
   USE REWDAWRD INDE REWDAWRD
   HELLO=.F.
  CASE FNAME=12
   FF='EMPANELMENT FOR US/DS/etc. FILE'
   USE PERSRECD INDE PERSRECD,PERSRETR,PERSPOST,PERSNAME
   HELLO=.F.
  CASE FNAME=0
   CLEAR
   RETU
 ENDCASE
ENDDO
CLEA
RETU
```

```
***********DELETC PROGRAM*************
***FOR DELETING A RECORD
set talk off
CLOSE DATABASES
clea
***SELECT MODULE
do datmenu
***IF INVALID FILE SELECTION EXIT
if fname = 0 .OR. FNAME=10 .OR. FNAME=12
 close data
 retu
endif
clear
go top
if eof()
 ? 'There are no records in the file'
 wait to await
 CLEA
 close data
 RETU
ENDIF
one= 'Y'
do while upper(one)='Y'
 clea
 SELE 1
 count to a
 @ 7,5 say 'There are '+str(a,5)+' records in the file'
 IDNO=space(5)
 @ 10,0 say 'Enter the identification no. : ' get IDNO
 read
 clea
 IDNO=trim(IDNO)
 R=0
 if fname=1
  CLEAR
  SEEK IDNO
  if .NOT. EOF()
   r=recno()
  endif
 else
  clear
  do case
  case fname=2
   disp all fields IDCODE,QUACOD,QUAYER,QUACOU for IDCODE=IDNO
  case fname=3
   disp all fields IDCODE,EXCODE,SPNAM1 for IDCODE=IDNO
  case fname=4
   disp all fields IDCODE,LGCODE,RDCODE,SKCODE for IDCODE=IDNO
  case fname=5
   disp all fields IDCODE,SLCODE,DTGOVT for IDCODE=IDNO
  case fname=6
   disp all fields IDCODE,NATTRN,LEVCOR,TRYEAR for IDCODE=IDNO
  CASE FNAME=7
   DISP ALL FIEL IDCODE,NTRAIN,LVLCOR,TRCNTY,TRGYER FOR IDCODE=IDNO
  CASE FNAME=8
   DISP ALL FIEL IDCODE,PARTPN,CNFYER FOR IDCODE=IDNO
  CASE FNAME=9
   DISP ALL FIEL IDCODE,SRPOST,YRFROM,YEARTO FOR IDCODE=IDNO
  CASE FNAME=10
   DISP ALL FIEL IDCODE,PREPOS,SCLPAY,BASPAY FOR IDCODE=IDNO
  CASE FNAME=11
   DISP ALL FIEL IDCODE,RWDAWD,RANAME,RAYEAR FOR IDCODE=IDNO
  CASE FNAME=12
   DISP ALL FIEL IDCODE,EMPYER,EMPCOD FOR IDCODE=IDNO
  endcase
```

```
***IF MORE THAN ONE RECORD WITH THE GIVEN SPECIFICATION
****SELECT THE ONE REQUIRED
  if aaa > 1
   r=space(5)
   @ 21,0 say ' Enter record no. from displayed above which;
   you want to delete'
   @ 22,0 get r
   read
   r=val(r)
  endif
 endif
 if r>0
  clea
***TO CONFIRM WHETHER IT IS THE REQUIRED
****RECORD TO BE DELETED
  do case
  case fname = 1
   disp off record r fields IDCODE,LTNAME,FMNAME,DOFBTH
  case fname=2
   disp OFF RECORD R FIEL IDCODE,QUACOD,QUAYER,QUACOU
  case fname=3
   disp OFF RECORD R FIEL IDCODE,EXCODE,SPNAM1
  case fname=4
   disp OFF RECORD R FIEL IDCODE,LGCODE,RDCODE,SKCODE
  case fname=5
   disp OFF RECORD R FIEL IDCODE,SLCODE,DTGOVT
  case fname=6
   disp OFF RECORD R FIEL IDCODE,NATTRN,LEVCOR,TRYEAR
  CASE FNAME=7
   DISP OFF RECORD R FIEL IDCODE,NTRAIN,LVLCOR,TRCNTY,TRGYER
  CASE FNAME=8
   DISP OFF RECORD R FIEL IDCODE,PARTPN,CNFYER
  CASE FNAME=9
   DISP OFF RECORD R FIEL IDCODE,SRPOST,YRFROM,YEARTO
  CASE FNAME=11
   DISP OFF RECORD R FIEL IDCODE,RWDAWD,RANAME,RAYEAR
  endcase
 else
  clea
  ? ' This record does not exist'
  ?
  ? 'Do you want to change (Y or N)'
  one = ' '
  do while .not. (upper(one) $ 'YN')
   @ 10,0 say 'Enter your choice' get one
   read
  enddo
  loop
 endif
 answer = ' '
 do while .not. (upper(answer) $ 'YN')
  @ 15,10 say 'Is it the record you want to delete(Y or N)'
  @ 15,col()+3 get answer
  read
 enddo
 if .not. upper(answer) = 'Y'
  clea
  one=' '
  do while .not. (upper(one) $ 'YN')
   @ 10,10 say 'Do you want to try again (Y or N)'
   @ 10,col()+1 get one
   read
  enddo
  loop
 else
  delete record r
  pack
 endif
***IF BASIC INFORMATION IS DELETED
****THE CORRESPONDING RECORDS IN OTHER
****FILES ARE TO BE DELETED
 if fname=1
```

```
  sele 2
  use ACADQUAL inde ACADQUAL
  dele all for IDCODE=IDNO
  pack
  use EXTCRACT inde EXTCRACT
  dele all for IDCODE=IDNO
  pack
  use LANGKNON inde LANGKNON
  dele all for IDCODE=IDNO
  pack
  use APPTCONF inde APPTCONF
  dele all for IDCODE=IDNO
  pack
  use TRANCOUR inde TRANCOUR,TRANITRN
  dele all for IDCODE=IDNO
  pack
  USE TRABROAD INDE TRABROAD,TRANATRN
  DELE ALL FOR IDCODE=IDNO
  PACK
  USE PARTINTN INDE PARTINTN
  DELE ALL FOR IDCODE=IDNO
  PACK
  USE HISTSERV INDE HISTSERV
  DELE ALL FOR IDCODE=IDNO
  PACK
  USE REWDAWRD INDE REWDAWRD
  DELE ALL FOR IDCODE=IDNO
  PACK
 endif
 one=' '
 clea
****WHETHER MORE RECORDS ARE TO BE DELETED
 do while .not. (uppe(one) $ 'YN')
  @  10,0 say 'Do you want to delete more records of the same ;
  file (Y or N)'
  @ 11,10 say 'Enter your choice : ' get one
  read
 enddo
 clea
enddo
clea
close all
rele one,which
return
```

```
**************DIRECTR PROGRAM***************
SET TALK OFF
CLOSE ALL
do while .t.
clear
which ='  '
@ 2,15 say 'LISTING OF CODES DIRECTORIES'
@ 3,15 SAY 'Enter: which directory listing you want?'
@ 4,20 say '1---> for Country codes'
@ 5,20 say '2---> for Course codes'
@ 6,20 say '3---> for Department codes'
@ 7,20 say '4---> for Designation/post codes'
@ 8,20 say '5---> for Empanelment post codes'
@ 9,20 say '6---> for Extra-Curricular activity codes'
@ 10,20 say '7---> for Language codes (other than English)'
@ 11,20 say '8---> for Language Examination codes'
@ 12,20 say '9---> for Participation codes'
@ 13,20 say '10---> for Qualification codes'
@ 14,20 say '11---> for Scale codes'
@ 15,20 say '12---> for Subject codes'
@ 16,20 say '13---> for Training courses (abroad) codes'
@ 17,20 say '14---> for Training courses (in India) codes'
@ 18,20 say '<return>---> to come to previous menu '
@ 20,20 say 'enter your choice' get which PICT '99'
read
which=val(which)
IF WHICH=0
 RELE WHICH
 CLEA
 EXIT
ENDIF
CLEA
IF .NOT. WHICH>14
 DO WHILE .T.
  ANS=' '
  @ 10,10 SAY 'DO YOU WANT IT ON PRINTER ? (Y or N) : ' GET ANS
  READ
  IF UPPE(ANS) $ 'YN'
   EXIT
  ENDIF
 ENDDO
 IF UPPE(ANS) = 'Y'
  SET PRINT ON
 ENDIF
 RELE ANS
ENDIF
do case
 case which =1
  use country inde country
  ? 'LIST OF COUNTRY CODES'
  ? '--------------------------'
  LIST
 case which=2
  use COUR inde COUR
  ? 'LIST OF COURSE CODES'
  ? '---------------------'
  LIST
 case which=3
  use DEPT inde DEPT
  ? 'LIST OF DEPARTMENT CODES'
  ? '-------------------------'
  LIST
 case which=4
  use DESIG inde DESIG
  ? 'LIST OF DESIGNATION/POST CODES'
```

```
 LIST
case which=5
 use EMPANEL inde EMPANEL
 ? 'LIST OF EMPANELMENT POST CODES'
 ? '_____'
 LIST
case which=6
 use EXTCURR inde EXTCURR
 ? 'LIST OF EXTRA-CURRICULAR ACTIVITY CODES'
 ? '_____'
 LIST
case which=7
 use LANGUAGE inde LANGUAGE
 ? 'LIST OF LANGUAGE CODES'
 ? '_____'
 LIST
case which = 8
 use LANEXAM inde LANEXAM
 ? 'LIST OF LANGUAGE EXAMINATION CODES'
 ? '_____'
 LIST
case which=9
 use PARTICIP inde PARTICIP
 ? 'LIST OF PARTICIPATION CODES'
 ? '_____'
 LIST
case which=10
 use QUAL inde QUAL
 ? 'LIST OF QUALIFICATION CODES'
 ? '_____'
 LIST
case which = 11
 use SCALE inde SCALE
 ? 'LIST OF SCALE CODES'
 ? '_____'
 LIST
case which = 12
 use SUBJECT inde SUBJECT
 ? 'LIST OF SUBJECT CODES'
 ? '_____'
 LIST
CASE WHICH = 13
 USE ATRAIN INDE ATRAIN
 ? 'LIST OF TRAINING COURSES (ABROAD) CODES'
 ? '_____'
 LIST
CASE WHICH = 14
 USE TRAIN INDE TRAIN
 ? 'LIST OF TRAINING COURSES (IN INDIA) CODES'
 ? '_____'
 LIST
endcase
SET PRINT OFF
WAIT
enddo
RETU
```

```
********EDUMENU COMMAND FILE********
***FOR ENTRY, DELETION, UPDATION MENU
****ALLOWS ENTRY THRU PASSWORD : PISCBEC
CLEA
CLOSE ALL
PAS=SPACE(15)
SET COLO TO +*W
@ 10,10 SAY ' ENTER THE P A S S W O R D  HERE AND PRESS <RETURN>'
SET CONS OFF
ACCE TO PAS
PAS = UPPER(PAS)
DO WHILE PAS <> 'PISCBEC'
 CLEA
 SET COLO TO W
 @ 12,10 SAY 'PASSWORD INCORRECT'
 TRY= ' '
 DO WHILE .NOT. (UPPER(TRY)$ 'YN')
  @ 15,10 SAY 'DO YOU WANT TO TRY AGAIN?' GET TRY PICT 'A'
  READ
  TRY=UPPER(TRY)
 ENDDO
 IF TRY= 'N'
  CLEAR
  CLOSE DATABASES
  RETU
 ELSE
  CLEA
  PAS = SPACE(15)
  SET COLO TO +*W
  @ 10,10 SAY 'ENTER THE PASSWORD AND PRESS <RETURN>'
  SET CONS OFF
  ACCE TO PAS
  SET CONS ON
  SET COLO TO W
  PAS = UPPER(PAS)
 ENDIF
ENDDO
set colo to w
set cons on
clea
run date
clea
IDEA = ' '
DO WHILE .NOT. IDEA $  '1234'
 IDEA = ' '
 @ 1,10 TO 17,55 DOUBLE
 @ 3,20 SAY 'ENTRY AND UPDATE MENU'
 @ 5,20 SAY '1 ----- ENTER  A RECORD'
 @ 7,20 SAY '2 ----- DELETE A RECORD'
 @ 9,20 SAY '3 ----- UPDATE A RECORD'
 @ 12,20 SAY '4 ---- TO COME BACK TO MAIN MENU'
 @ 15,20 GET IDEA
 READ
 DO CASE
  CASE IDEA = '1'
   DO ENTERC
  CASE IDEA = '2'
   DO DELETC
  CASE IDEA = '3'
   DO UPDATE
  CASE IDEA = '4'
   CLEA
   EXIT
 ENDCASE
 IDEA=' '
ENDDO
```

RETU

---------- PROGRAM NUMBER : 14 ---------- FOR CBEC

```
**********************ENT01 command file************************
***A MODULE OF ENT1 PROGRAM
SET TALK OFF
clear
@ 1,35 say 'PERSONNEL RECORD'
@ 1,0 SAY TIME()
@ 1,11 SAY 'RECNO:'+STR(R,5)
@ 1,70 SAY DATE() PICT 'E'
@ 2,0 TO 24,79 DOUBLE
@ 3,3 SAY 'IDENTIFICATION No. : '+IDNO+'   DATE OF RECEIPT - YEAR : '+DOR
@ 4,3 SAY 'SHRI/SMT/etc. : '+RANK
@ 5,3 SAY 'LAST NAME : '+LNAM
@ 5,34 SAY 'FIRST & MIDDLE NAME : '+FNAM
@ 6,3 SAY 'DATE OF BIRTH - YEAR : '+DOB1+' MONTH : '+DOB2+' DAY : '+DOB3
@ 8,3 SAY 'SEX CODE : '+PSEX
@ 8,20 SAY 'MARITAL STATUS : '+PMAR
@ 8,45 SAY 'AGE OF CHILDREN : '+AGC1+'  '+AGC2+'  '+AGC3+'  '+AGC4
@ 10,3 SAY 'PARTICULARS OF SPOUSE - OCCUPATION CODE : '+OCUP+'   SERVICE
@ 11,8 SAY 'DETAILS OF EMPLOYER : '+EMPR
@ 12,8 SAY 'PLACE OF PRESENT POSTING : '+PLAC
@ 14,3 SAY 'HOME TOWN : '+HTON+'   STATE : '+STAT
@ 15,3 SAY 'PERMANENT ADDRESS : '+PERA
@ 17,3 SAY 'PIN CODE : '+PERP
@ 18,3 SAY 'SC / ST / OTHERS CODE : '+SCST+'   EX-SERVICEMAN CODE : '+EXS
@ 20,3 SAY 'DATE OF JOINING GOVT. SERVICE - YEAR : '+DOJ1+' MONTH : '+DOJ
@ 21,3 SAY 'FORENOON / AFTERNOON : '+FAFT+'   DESIGNATION CODE : '+DPOS
@ 23,3 SAY 'DATE OF PASSING DEPARTMENTAL EXAM. - YEAR : '+DOP1+' MONTH :
@ 3,24 GET IDNO PICT '9999'
@ 3,56 GET DOR1 PICT '99'
@ 3,67 GET DOR2 PICT '99'
@ 3,76 GET DOR3 PICT '99'
@ 4,19 GET RANK
@ 5,15 GET LNAM PICT '@A'
@ 5,56 GET FNAM
@ 6,26 GET DOB1 PICT '99'
@ 6,37 GET DOB2 PICT '99'
@ 6,46 GET DOB3 PICT '99'
@ 8,14 GET PSEX PICT '9'
@ 8,37 GET PMAR PICT '9'
@ 8,63 GET AGC1 PICT '99'
@ 8,67 GET AGC2 PICT '99'
@ 8,71 GET AGC3 PICT '99'
@ 8,75 GET AGC4 PICT '99'
@ 10,45 GET OCUP PICT '9'
@ 10,64 GET SERV PICT '9'
@ 11,30 GET EMPR
@ 12,35 GET PLAC
@ 14,15 GET HTON
@ 14,42 GET STAT
@ 15,23 GET PERA
@ 17,14 GET PERP PICT '999999'
@ 18,27 GET SCST PICT '9'
@ 18,52 GET EXSM PICT '9'
@ 20,42 GET DOJ1 PICT '99'
@ 20,53 GET DOJ2 PICT '99'
@ 20,62 GET DOJ3 PICT '99'
@ 21,26 GET FAFT PICT '9'
@ 21,49 GET DPOS
@ 23,47 GET DOP1 PICT '99'
@ 23,58 GET DOP2 PICT '99'
READ
DOR=DOR2+'/'+DOR3+'/'+DOR1
DOR=CTOD(DOR)
DOB=DOB2+'/'+DOB3+'/'+DOB1
DOB=CTOD(DOB)
```

```
DOJ=CTOD(DOJ)
DOP=DOP2+DOP1
CLEA
PUBL IDQ1
IDQ1=IDNO
LNAM=UPPER(LNAM)
DPOS=UPPE(DPOS)
SELE 1
USE PERSRECD INDE PERSRECD,PERSRETR,PERSPOST,PERSNAME
GO R
IDNO = TRIM(IDNO)
REPLACE IDCODE WITH IDNO,;
     DATERT WITH DOR,;
     RANKPR WITH RANK,;
     LTNAME WITH LNAM
REPL FMNAME WITH FNAM,;
     DOFBTH WITH DOB,;
     PERSEX WITH PSEX,;
     MARSTS WITH PMAR
REPL AGECH1 WITH AGC1,;
     AGECH2 WITH AGC2,;
     AGECH3 WITH AGC3,;
     AGECH4 WITH AGC4,;
     PSPOCC WITH OCUP
REPL PSPSER WITH SERV,;
     PSPEMP WITH EMPR,;
     PSPPLA WITH PLAC,;
     HOMTON WITH HTON,;
     HOMSTA WITH STAT
REPL PERADD WITH PERA,;
     PERPIN WITH PERP,;
     SCSTOT WITH SCST,;
     EXSERM WITH EXSM
REPL DATEJG WITH DOJ,;
     FORAFT WITH FAFT,;
     DESPOS WITH DPOS,;
     DATPDE WITH DOP
CLEAR
RETURN
```

```
*****************ENT010 PROGRAM*********************
***A MODULE OF THE ENT10 PROGRAM
@ 1,32 say 'PRESENT POST & PAY RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '
@ 1,72 say date() pict '@e'
@ 2,0 TO 14,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say 'PRESENT POST : '+PPOS
@ 8,3 say 'SCALE OF PAY : '+SPAY
@ 10,3 SAY 'BASIC PAY : '+BPAY
@ 12,3 SAY 'SPECIAL/PERSONAL PAY (IF ANY) : '+SPPY
if idea='1' .and. fname=1
 @ 4,27 say IDQ1
 IDNO=IDQ1
else
 CLOSE ALL
 sele 2
 DO WHILE .T.
  @ 21,0 CLEA
  @ 4,27 GET IDNO PICT '9999'
  READ
  IF IDNO=' '
   @ 21,0 SAY 'ERROR : YOU MUST ENTER IDENTIFICATION NO.'
   LOOP
  ELSE
   @ 21,0 clear
   use PERSRECD inde PERSRECD,PERSRETR,PERSPOST,PERSNAME
   find &IDNO
   if .NOT. EOF()
    QR=RECNO()
    exit
   else
    @ 21,0 say 'ERROR: ENTER CORRECT IDENTIFICATION NO.'
    LOOP
   endif
  ENDIF
 ENDDO
 USE
ENDIF
@1,17 SAY STR(QR,5)
@ 21,0 CLEA
@ 6,18 get PPOS
@ 8,18 GET SPAY
@ 10,15 GET BPAY PICT '9999'
@ 12,35 GET SPPY PICT '9999'
READ
PPOS=UPPE(PPOS)
CLOSE ALL
SELE 1
USE PERSRECD inde PERSRECD,PERSRETR,PERSPOST,PERSNAME
GO QR
REPL PREPOS WITH PPOS,;
     SCLPAY WITH SPAY,;
     BASPAY WITH BPAY,;
     SPPRPY WITH SPPY
CLEA
RETU
```

```
*****************ENTO11 PROGRAM*********************
***A MODULE OF THE ENT11 PROGRAM
@ 1,32 say 'REWARD / AWARD RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '+str(r,5)
@ 1,72 say date() pict '@e'
@ 2,0 TO 12,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say 'REWARD/AWARD (CODE) : '+REWD
@ 6,32 say 'NAME OF THE REWARD/AWARD : '+RNAM
@ 8,3 SAY 'YEAR : '+RYER
@ 8,17 SAY 'AMOUNT RECEIVED : '+RAMT
@ 10,3 SAY 'NAME OF THE AUTHORITY : '+AUTH
if idea='1' .and. fname=1
 @ 4,27 say IDQ1
 IDNO=IDQ1
else
 sele 2
 DO WHILE .T.
  @ 21,0 CLEA
  @ 4,27 GET IDNO PICT '9999'
  READ
  IF IDNO=' '
   @ 21,0 SAY 'ERROR : YOU MUST ENTER IDENTIFICATION NO.'
   LOOP
  ELSE
   @ 21,0 clear
   use PERSRECD inde PERSRECD,PERSRETR,PERSPOST,PERSNAME
   find &IDNO
   if .NOT. EOF()
    exit
   else
    @ 21,0 say 'ERROR: ENTER CORRECT IDENTIFICATION NO.'
    LOOP
   endif
  ENDIF
 ENDDO
 USE
ENDIF
@ 21,0 CLEA
@ 6,25 get REWD PICT '9'
@ 6,59 GET RNAM
@ 8,10 GET RYER PICT '99'
@ 8,35 GET RAMT PICT '999999'
@ 10,27 GET AUTH
READ
SELE 1
USE REWDAWRD inde REWDAWRD
GO R
IDNO=trim(IDNO)
REPL IDCODE WITH IDNO,;
     RWDAWD WITH REWD,;
     RANAME WITH RNAM,;
     RAYEAR WITH RYER,;
     RWDAMT WITH RAMT,;
     NAMAUT WITH AUTH
CLEA
RETU
```

```
*****************ENT012 PROGRAM*********************
***A MODULE OF THE ENT12 PROGRAM
@ 1,32 say 'EMPANELMENT RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '
@ 1,72 say date() pict '@e'
@ 2,0 TO 8,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say 'YEAR : '+EYER
@ 6,17 say 'POST FOR WHICH EMPANELLED : '+ECOD
if idea='1' .and. fname=1
 @ 4,27 say ID01
 IDNO=ID01
else
 CLOSE ALL
 sele 2
 DO WHILE .T.
  @ 21,0 CLEA
  @ 4,27 GET IDNO PICT '9999'
  READ
  IF IDNO=' '
   @ 21,0 SAY 'ERROR : YOU MUST ENTER IDENTIFICATION NO.'
   LOOP
  ELSE
   @ 21,0 clear
   use PERSRECD inde PERSRECD,PERSRETR,PERSPOST,PERSNAME
   find &IDNO
   if .NOT. EOF()
    QR=RECNO()
    exit
   else
    @ 21,0 say 'ERROR: ENTER CORRECT IDENTIFICATION NO.'
    LOOP
   endif
  ENDIF
 ENDDO
 USE
ENDIF
@1,17 SAY STR(QR,5)
@ 21,0 CLEA
@ 6,10 get EYER PICT '99'
@ 6,45 GET ECOD PICT '9'
READ
CLOSE ALL
SELE 1
USE PERSRECD inde PERSRECD,PERSRETR,PERSPOST,PERSNAME
GO QR
REPL EMPYER WITH EYER,;
     EMPCOD WITH ECOD
CLEA
RETU
```

```
*****************ENT02 PROGRAM*********************
***A MODULE OF THE ENT2 PROGRAM
@ 1,32 say 'ACADEMIC QUALIFICATION RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '+str(r,5)
@ 1,72 say date() pict '@e'
@ 2,0 TO 18,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say 'QUALIFICATION CODE : '+QCOD+'     YEAR : '+QYER
@ 8,3 say 'UNIVERSITY : '+QUNI
@ 10,3 say 'DIVISION : '+QDIV
@ 12,3 say 'COURSE CODE : '+QCOU
@ 14,3 say 'SUBJECTS CODE - (1) : '+QSB1+'     (2) : '+QSB2
@ 16,3 say '                  (3) : '+QSB3+'     (4) : '+QSB4
if idea='1' .and. fname=1
 @ 4,27 say IDQ1
 IDNO=IDQ1
else
 sele 2
 DO WHILE .T.
  @ 21,0 CLEA
  @ 4,27 GET IDNO PICT '9999'
  READ
  IF IDNO=' '
   @ 21,0 SAY 'ERROR : YOU MUST ENTER IDENTIFICATION NO.'
   LOOP
  ELSE
   @ 21,0 clear
   use PERSRECD inde PERSRECD,PERSRETR,PERSPOST,PERSNAME
   find &IDNO
   if .NOT. EOF()
    exit
   else
    @ 21,0 say 'ERROR: ENTER CORRECT IDENTIFICATION NO.'
    LOOP
   endif
  ENDIF
ENDDO
USE
ENDIF
@ 21,0 CLEA
@ 6,24 get QCOD PICT '99'
@ 6,37 GET QYER PICT '99'
@ 8,16 get QUNI
@ 10,14 GET QDIV PICT '9'
@ 12,17 GET QCOU PICT '9'
@ 14,25 GET QSB1
@ 14,37 GET QSB2
@ 16,25 GET QSB3
@ 16,37 GET QSB4
READ
QSB1=UPPE(QSB1)
QSB2=UPPE(QSB2)
QSB3=UPPE(QSB3)
QSB4=UPPE(QSB4)
SELE 1
USE ACADQUAL inde ACADQUAL
GO R
IDNO=trim(IDNO)
REPLACE IDCODE WITH IDNO,;
        QUACOD WITH QCOD,;
        QUAYER WITH QYER,;
        QUAUNI WITH QUNI
REPL QUADIV WITH QDIV,;
     QUACOU WITH QCOU,;
```

```
      QUASB2 WITH QSB2
REPL. QUASB3 WITH QSB3,;
      QUASB4 WITH QSB4
CLEA
RETU
```

```
*****************ENT03 PROGRAM*********************
***A MODULE OF THE ENT3 PROGRAM
@ 1,32 say 'EXTRA CURRICULAR ACTIVITY RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '+str(r,5)
@ 1,72 say date() pict '@e'
@ 2,0 TO 12,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say 'EXTRA CURRICULAR ACTIVITY CODE : '+ECOD
@ 8,8 say 'NAME OF THE SPORT/ART/etc. : (1) : '+SPN1
@ 10,8 say '                              (2) : '+SPN2
if idea='1' .and. fname=1
 @ 4,27 say IDQ1
 IDNO=IDQ1
else
 sele 2
 DO WHILE .T.
  @ 21,0 CLEA
  @ 4,27 GET IDNO PICT '9999'
  READ
  IF IDNO=' '
   @ 21,0 SAY 'ERROR : YOU MUST ENTER IDENTIFICATION NO.'
   LOOP
  ELSE
   @ 21,0 clear
   use PERSRECD inde PERSRECD,PERSRETR,PERSPOST,PERSNAME
   find &IDNO
   if .NOT. EOF()
    exit
   else
    @ 21,0 say 'ERROR: ENTER CORRECT IDENTIFICATION NO.'
    LOOP
   endif
  ENDIF
 ENDDO
 USE
ENDIF
@ 21,0 CLEA
@ 6,36 get ECOD PICT '9'
@ 8,43 GET SPN1
@ 10,43 GET SPN2
READ
IF ECOD # '34'
 STORE SPACE(19) TO SPN1,SPN2
ENDIF
SELE 1
USE EXTCRACT inde EXTCRACT
GO R
IDNO=trim(IDNO)
REPL IDCODE WITH IDNO,;
     EXCODE WITH ECOD,;
     SPNAM1 WITH SPN1,;
     SPNAM2 WITH SPN2
CLEA
RETU
```

```
*****************ENT04 PROGRAM*********************
***A MODULE OF THE ENT4 PROGRAM
@ 1,32 say 'LANGUAGE KNOWN RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '+str(r,5)
@ 1,72 say date() pict '@e'
@ 2,0 TO 14,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say 'LANGUAGE CODE : '+LCOD
@ 8,3 say 'PROFICIENCY CODES -'
@ 9,8 SAY 'READING/WRITING : '+RCOD
@ 10,8 SAY '          SPEAKING : '+SCOD
@ 12,3 SAY 'EXAMINATION PASSED CODE : '+ECOD
if idea='1' .and. fname=1
 @ 4,27 say ID01
 IDNO=ID01
else
 sele 2
 DO WHILE .T.
  @ 21,0 CLEA
  @ 4,27 GET IDNO PICT '9999'
  READ
  IF IDNO=' '
   @ 21,0 SAY 'ERROR : YOU MUST ENTER IDENTIFICATION NO.'
   LOOP
  ELSE
   @ 21,0 clear
   use PERSRECD inde PERSRECD,PERSRETR,PERSPOST,PERSNAME
   find &IDNO
   if .NOT. EOF()
    exit
   else
    @ 21,0 say 'ERROR: ENTER CORRECT IDENTIFICATION NO.'
    LOOP
   endif
  ENDIF
 ENDDO
 USE
ENDIF
@ 21,0 CLEA
@ 6,19 get LCOD PICT '99'
@ 9,26 GET RCOD PICT '9'
@ 10,26 GET SCOD PICT '9'
@ 12,29 GET ECOD PICT '9'
READ
SELE 1
USE LANGKNON inde LANGKNON
GO R
IDNO=trim(IDNO)
REPL IDCODE WITH IDNO,;
     LGCODE WITH LCOD,;
     RDCODE WITH RCOD,;
     SKCODE WITH SCOD,;
     EMCODE WITH ECOD
CLEA
RETU
```

```
*****************ENT05 PROGRAM*********************
***A MODULE OF THE ENT5 PROGRAM
@ 1,25 say 'DATE OF APPOINTMENT/CONFIRMATION RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '+str(r,5)
@ 1,72 say date() pict '@e'
@ 2,0 TO 16,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say 'SCALE CODE : '+SCOD
@ 8,3 say 'DATE OF APPOINTMENT/PROMOTION CODES -'
@ 9,8 SAY 'YEAR : '+DGO1+' MONTH : '+DGO2+' DAY : '+DGO3
@ 11,3 SAY 'FORENOON/AFTERNOON CODE : '+NAFT
@ 13,3 SAY 'DATE OF CONFIRMATION -'
@ 14,8 SAY 'YEAR : '+DAP1+' MONTH : '+DAP2+' DAY : '+DAP3
if idea='1' .and. fname=1
 @ 4,27 say IDQ1
 IDNO=IDQ1
else
 sele 2
 DO WHILE .T.
  @ 21,0 CLEA
  @ 4,27 GET IDNO PICT '9999'
  READ
  IF IDNO=' '
   @ 21,0 SAY 'ERROR : YOU MUST ENTER IDENTIFICATION NO.'
   LOOP
  ELSE
   @ 21,0 clear
   use PERSRECD inde PERSRECD,PERSRETR,PERSPOST,PERSNAME
   find &IDNO
   if .NOT. EOF()
    exit
   else
    @ 21,0 say 'ERROR: ENTER CORRECT IDENTIFICATION NO.'
    LOOP
   endif
  ENDIF
 ENDDO
 USE
ENDIF
@ 21,0 CLEA
@ 6,16 get SCOD PICT '9'
@ 9,15 GET DGO1 PICT '99'
@ 9,26 GET DGO2 PICT '99'
@ 9,35 GET DGO3 PICT '99'
@ 11,29 GET NAFT PICT '9'
@ 14,15 GET DAP1 PICT '99'
@ 14,26 GET DAP2 PICT '99'
@ 14,35 GET DAP3 PICT '99'
READ
DGO=DGO2+'/'+DGO3+'/'+DGO1
DGO=CTOD(DGO)
DAP=DAP2+'/'+DAP3+'/'+DAP1
DAP=CTOD(DAP)
SELE 1
USE APPTCONF inde APPTCONF
GO R
IDNO=trim(IDNO)
REPL IDCODE WITH IDNO,;
     SLCODE WITH SCOD,;
     DTGOVT WITH DGO,;
     NDNAFT WITH NAFT,;
     DTAPPT WITH DAP
CLEA
RETU
```

```
*****************ENT06 PROGRAM*********************
***A MODULE OF THE ENT6 PROGRAM
@ 1,25 say 'TRAINING COURSE (ATTENDED IN INDIA) RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '+str(r,5)
@ 1,72 say date() pict '@e'
@ 2,0 TO 14,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say 'CODE FOR NATURE OF TRAINING/COURSE : '+NTRN
@ 8,3 say 'LEVEL OF THE COURSE : '+LCOR
@ 10,3 SAY 'NAME OF INSTITUTION : '+INST
@ 12,3 SAY 'DURATION (No. OF DAYS) : '+DURN+'     YEAR : '+TRYR
if idea='1' .and. fname=1
 @ 4,27 say IDQ1
 IDNO=IDQ1
else
 sele 2
 DO WHILE .T.
  @ 21,0 CLEA
  @ 4,27 GET IDNO PICT '9999'
  READ
  IF IDNO=' '
   @ 21,0 SAY 'ERROR : YOU MUST ENTER IDENTIFICATION NO.'
   LOOP
  ELSE
   @ 21,0 clear
   use PERSRECD inde PERSRECD,PERSRETR,PERSPOST,PERSNAME
   find &IDNO
   if .NOT. EOF()
    exit
   else
    @ 21,0 say 'ERROR: ENTER CORRECT IDENTIFICATION NO.'
    LOOP
   endif
  ENDIF
 ENDDO
 USE
ENDIF
@ 21,0 CLEA
@ 6,40 get NTRN PICT '99'
@ 8,25 GET LCOR PICT '9'
@ 10,25 GET INST
@ 12,28 GET DURN PICT '999'
@ 12,42 GET TRYR PICT '99'
READ
SELE 1
USE TRANCOUR inde TRANCOUR,TRANITRN
GO R
IDNO=trim(IDNO)
REPL IDCODE WITH IDNO,;
     NATTRN WITH NTRN,;
     LEVCOR WITH LCOR,;
     INSTIT WITH INST,;
     DURATN WITH DURN,;
     TRYEAR WITH TRYR
CLEA
RETU
```

```
*****************ENT07 PROGRAM*********************
***A MODULE OF THE ENT7 PROGRAM
@ 1,25 say 'TRAINING COURSE (ATTENDED ABROAD) RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '+str(r,5)
@ 1,72 say date() pict '@e'
@ 2,0 TO 16,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say 'CODE FOR NATURE OF TRAINING/COURSE : '+NTRN
@ 8,3 say 'LEVEL OF THE COURSE : '+LCOR
@ 10,3 SAY 'NAME OF THE COUNTRY : '+TCNT
@ 12,3 SAY 'NAME OF INSTITUTION : '+INST
@ 14,3 SAY 'DURATION (No OF WEEKS) : '+DURN+'    YEAR : '+TRYR
if idea='1' .and. fname=1
 @ 4,27 say IDQ1
 IDNO=IDQ1
else
 sele 2
 DO WHILE .T.
  @ 21,0 CLEA
  @ 4,27 GET IDNO PICT '9999'
  READ
  IF IDNO=' '
   @ 21,0 SAY 'ERROR : YOU MUST ENTER IDENTIFICATION NO.'
   LOOP
  ELSE
   @ 21,0 clear
   use PERSRECD inde PERSRECD,PERSRETR,PERSPOST,PERSNAME
   find &IDNO
   if .NOT. EOF()
    exit
   else
    @ 21,0 say 'ERROR: ENTER CORRECT IDENTIFICATION NO.'
    LOOP
   endif
  ENDIF
 ENDDO
 USE
ENDIF
@ 21,0 CLEA
@ 6,40 get NTRN PICT '99'
@ 8,25 GET LCOR PICT '9'
@ 10,25 GET TCNT
@ 12,25 GET INST
@ 14,28 GET DURN PICT '999'
@ 14,42 GET TRYR PICT '99'
READ
SELE 1
USE TRABROAD inde TRABROAD,TRANATRN
GO R
IDNO=trim(IDNO)
REPL IDCODE WITH IDNO,;
     NTRAIN WITH NTRN,;
     LVLCOR WITH LCOR,;
     TRCNTY WITH TCNT,;
     INSTTN WITH INST,;
     DURWKS WITH DURN,;
     TRGYER WITH TRYR
CLEA
RETU
```

```
**************OUR5 PROGRAM*************
clear
clos all
s=' '
chice=0
SELE 1
USE PERSRECD INDE PERSPOST
@ 9,20 say 'You want listing of Officers of which type ?'
@ 11,10 to 15,75 doub
@ 12,15 say 'Press 1 for   Ex-Serviceman'
@ 14,15 SAY 'Press 2 for   Others'
@ 16,15 say 'Enter your choice : ' get chice pict '9' RANGE 1,3
read
CHICE=STR(CHICE,1)
clea
do case
 case chice='1'
  s='List of Ex-Serviceman Officers'
 case chice='2'
  s='List of Other Officers'
endcase
onpr=0
@ 10,10 say 'Press 1)---> If you want on printer .'
@ 12,10 say 'Press 2)---> If you want on screen .'
@ 16,10 say 'Enter your choice (1 or 2) : ' get onpr pict '9' RANGE 1,2
read
if onpr=1
 set devi to prin
else
 clear
endif
r=1
@R,10 SAY 'NATIONAL INFORMATICS CENTRE'
@R+1,20 SAY 'C.B.E.C.'
@r+2,10 say repl('*',len(trim(s)))
@r+3,10 say s
@r+4,10 say repl('*',len(trim(s)))
@R+5,20 SAY DTOC(DATE())
R=R+8
@R,1 SAY 'S.No.  Id.No.  Name           Designation'
SNO=0
do while .not. eof()
 if r > 20 .and. onpr=2
  wait
  clea
  r=1
  @r,10 say s
  @r+1,10 say repl('*',len(trim(s)))
  @R+2,20 SAY DTOC(DATE())
  R=R+3
 endif
 IF R>56 .AND. ONPR=1
  EJECT
  R=1
  @R,10 SAY S
  @R+1,10 SAY REPL('*',LEN(TRIM(S)))
  @R+2,20 SAY DTOC(DATE())
  R=R+3
 ENDIF
 if EXSERM=chice
  SNO=SNO+1
  R=R+2
  @R,1 SAY STR(SNO,5)
  @R,8 SAY IDCODE
  X=TRIM(RANKPR)+' '+TRIM(LTNAME)+' '+TRIM(FMNAME)
  @R,14 SAY X
```

```
   PPOS=PREPOS
   IF .NOT. PPOS=' '
    SELE 3
    USE DESIG INDE DESIG
    SEEK PPOS
    IF FOUND()
     @R,17+LEN(X) SAY DESCRP
    ENDIF
    SELE 1
   ENDIF
  ENDIF
  SKIP
enddo
if onpr=1
 set devi to scre
endif
close all
wait
retu
```

```
**************QUR6 PROGRAM****************
clear
set bell off
set talk off
clos all
ANS=' '
chice=' '
DO WHILE .T.
 CLEA
 @9,20 say 'You want listing of Officers of which Language ?'
 @12,10 to 14,75 doub
 @13,15 say 'Enter the Language code' get chice pict '99'
 read
 clea
 sele 3
 use language inde language
 if chice=' '
  RETU
 else
  find '&chice'
  if eof()
   GO TOP
   @10,10 say 'Do you want listing of languages ? (Y or N)' get ans PICT
   read
   clea
   if uppe(ans) = 'Y'
    list
    WAIT
   endif
   LOOP
  ELSE
   EXIT
  ENDIF
 ENDIF
ENDDO
clear
onpr=' '
do while .not. onpr $ '12'
 @ 10,5 say 'Press 1)---> If you want on printer .'
 @ 12,5 say 'Press 2)---> If you want on screen .'
 @ 16,5 say 'Enter your choice (1 or 2) : ' get onpr pict '9'
 read
enddo
clea
if onpr='1'
 set devi to prin
endif
@1,1 SAY 'N.I.C.'
@1,10 SAY 'C.B.E.C.'
@1,21 SAY 'OFFICERS WHO KNOW '+DESCRP
@2,21 say '******************'+repl('*',len(trim(descrp)))
@3,30 SAY DTOC(DATE())
if onpr='1'
 @5,1 say repl('-',130)
 @6,1 say 'S.No.'+'  '+'Identification No.'+'       '+'Name'
 @6,81 say 'Proficiency'
 @6,110 say 'Examination Passed'
 @7,70 say 'Reading/Writing'+'    '+'Speaking'
 @8,1 say repl('-',130)
else
 @5,1 say repl('-',78)
 @6,1 say 'S.No'+'  '+'Id.No'+'    '+'Name'
 @6,38 say 'Proficiency'
 @6,57 say 'Exam. Passed'
 @7,34 say 'Read/Write'+'    '+'Speak'
```

```
endif
SELE 3
USE
sele 2
use langknon inde langknon
sele 1
use persrecd inde perspost
L='&CHICE'
r=8
sno=0
do while .not. eof()
 idno=idcode
 rank=rankpr
 lnam=ltname
 fnam=fmname
 ppos=prepos
 sele 2
 seek idno
 do while idcode=idno
  if lgcode=L
   r=r+2
   sno=sno+1
   if onpr='1'
    @r,1 say str(sno,5)+'  '+idcode
    @r,29 say left(rank,3)+' '+trim(lnam)+' '+trim(fnam)
    if rdcode='1'
     @r,70 say 'WORKING KNOWLEDGE'
    else
     @r,70 say 'GOOD'
    endif
    if skcode='1'
     @r,90 say 'WORKING KNOWLEDGE'
    else
     @r,90 say 'GOOD'
    endif
    ECOD=EMCODE
    sele 3
    use lanexam inde lanexam
    seek ecod
    if found()
     @r,110 say descrp
    endif
    use
   else
    IF R>22
     WAIT
     CLEA
     R=1
    ENDIF
    @r,1 say str(sno,5)+'  '+idcode
    @r,15 say left(rank,3)+' '+trim(lnam)
    if rdcode='1'
     @r,34 say 'WORKING'
    else
     @r,34 say 'GOOD'
    endif
    if skcode='1'
     @r,47 say 'WORKING'
    else
     @r,47 say 'GOOD'
    endif
    ECOD=EMCODE
    sele 3
    use lanexam inde lanexam
    seek ecod
    if found()
     @r,67 say descrp
    endif
    use
   endif
   exit
```

```
  sele 2
  skip
 enddo
 sele 1
 skip
enddo
if onpr='1'
 set devi to scre
endif
close all
wait
retu
```

---------- PROGRAM NUMBER : 59 ---------- FOR CBEC

```
**********************QURMENU COMM FILE**************************
do while .t.
CLOSE ALL
clea
@ 2,30 say 'THE  QUERIES  OFFERED'
@ 3,30 say '-------------------------'
@ 5,2 to 19,78 doub
@ 6,14 say 'Press 1)----> To get the code of an employee based on'
@ 7,35 say 'last name and first & middle name.'
@ 8,14 say 'Press 2)----> To list out all details of an employee'
@ 9,35 say 'on the basis of identification number.'
@ 10,14 say 'Press 3)----> To get particular details of a particular'
@ 11,35 say 'employee based on identification number.'
@ 12,14 say 'Press 4)----> To list out officers according to the'
@ 13,35 say 'caste (SC/ST/Others) code.'
@ 14,14 say 'Press 5)----> To list out officers according to the'
@ 15,35 say 'exserviceman code.'
@ 16,14 say 'Press 6)----> To list out officers according to the'
@ 17,35 say 'language(code) they know.'
@ 18,14 say 'Press 7)----> To return to previous menu'
ans=0
@ 21,4 say 'Enter your choice (1,2,3,4,5,6,7) : ' get ans pict '9' range
read
SET DATE BRIT
do case
case ans=1
 do QUR1
case ans=2
 do QUR2
case ans=3
 do QUR3
case ans=4
 do QUR4
case ans=5
 do QUR5
case ans=6
 do QUR6
case ans=7
 EXIT
endcase
enddo
clea
retu
```

```
****UPDA01 PROGRAM****
***A MODULE OF THE UPDA1 PROGRAM
IF APPU=6
 DO WHILE .T.
  @8,19 GET PSEX PICT '9'
  READ
  IF PSEX $ '12'
   EXIT
  ENDIF
 ENDDO
 DO WHILE .T.
  @8,39 GET PMAR PICT '9'
  READ
  IF PMAR $ '123'
   EXIT
  ENDIF
 ENDDO
 DO WHILE .T.
  IF PMAR='2'
   STORE SPACE(2) TO AGC1,AGC2,AGC3,AGC4
   EXIT
  ENDIF
  QYR=YEAR(DATE())-YEAR(DOB)-12
  DO WHILE .T.
   @8,60 GET AGC1 PICT '99'
   READ
   IF VAL(AGC1)<QYR
    EXIT
   ENDIF
  ENDDO
  DO WHILE .T.
   @8,64 GET AGC2 PICT '99'
   READ
   IF VAL(AGC2)<QYR
    EXIT
   ENDIF
  ENDDO
  DO WHILE .T.
   @8,68 GET AGC3 PICT '99'
   READ
   IF VAL(AGC3)<QYR
    EXIT
   ENDIF
  ENDDO
  DO WHILE .T.
   @8,72 GET AGC4 PICT '99'
   READ
   IF VAL(AGC4)<QYR
    EXIT
   ENDIF
  ENDDO
  EXIT
 ENDDO
ELSE
 IF APPU=7
  DO WHILE .T.
   @9,50 GET OCUP PICT '9'
   READ
   IF OCUP $ '12'
    EXIT
   ENDIF
  ENDDO
  DO WHILE .T.
   IF OCUP='2'
    SERV=' '
```

```
      PLAC=SPACE(20)
      EXIT
     ENDIF
     DO WHILE .T.
      @9,68 GET SERV PICT '9'
      READ
      IF SERV $ '12 '
       EXIT
      ENDIF
     ENDDO
     @10,30 GET EMPR
     @11,35 GET PLAC
     READ
     EXIT
    ENDDO
   ELSE
    LNAM=UPPER(LNAM)
    SELE 1
    USE PERSRECD INDE PERSRECD,PERSRETR,PERSPOST,PERSNAME
    GO R
    REPLACE IDCODE WITH IDNO,;
     DATERT WITH DOR,;
     RANKPR WITH RANK,;
     LTNAME WITH LNAM
    REPL FMNAME WITH FNAM,;
     DOFBTH WITH DOB,;
     PERSEX WITH PSEX,;
     MARSTS WITH PMAR
    REPL AGECH1 WITH AGC1,;
     AGECH2 WITH AGC2,;
     AGECH3 WITH AGC3,;
     AGECH4 WITH AGC4,;
     PSPOCC WITH OCUP
    REPL PSPSER WITH SERV,;
     PSPEMP WITH EMPR,;
     PSPPLA WITH PLAC,;
     HOMTON WITH HTON,;
     HOMSTA WITH STAT
    REPL PERADD WITH PERA,;
     PERPIN WITH PERP,;
     SCSTOT WITH SCST,;
     EXSERM WITH EXSM
    REPL DATEJG WITH DOJ,;
     FORAFT WITH FAFT,;
     DESPOS WITH DPOS,;
     DATPDE WITH DOP
    CLEAR
   ENDIF
  ENDIF
  RETU
```

```
    PLAC=SPACE(20)
     EXIT
    ENDIF
    DO WHILE .T.
     @9,68 GET SERV PICT '9'
     READ
     IF SERV $ '12 '
      EXIT
     ENDIF
    ENDDO
    @10,30 GET EMPR
    @11,35 GET PLAC
    READ
    EXIT
   ENDDO
  ELSE
   LNAM=UPPER(LNAM)
   SELE 1
   USE PERSRECD INDE PERSRECD,PERSRETR,PERSPOST,PERSNAME
   GO R
   REPLACE IDCODE WITH IDNO,;
    DATERT WITH DOR,;
    RANKPR WITH RANK,;
    LTNAME WITH LNAM
   REPL FMNAME WITH FNAM,;
    DOFBTH WITH DOB,;
    PERSEX WITH PSEX,;
    MARSTS WITH PMAR
   REPL AGECH1 WITH AGC1,;
    AGECH2 WITH AGC2,;
    AGECH3 WITH AGC3,;
    AGECH4 WITH AGC4,;
    PSPOCC WITH OCUP
   REPL PSPSER WITH SERV,;
    PSPEMP WITH EMPR,;
    PSPPLA WITH PLAC,;
    HOMTON WITH HTON,;
    HOMSTA WITH STAT
   REPL PERADD WITH PERA,;
    PERPIN WITH PERP,;
    SCSTOT WITH SCST,;
    EXSERM WITH EXSM
   REPL DATEJG WITH DOJ,;
    FORAFT WITH FAFT,;
    DESPOS WITH DPOS,;
    DATPDE WITH DOP
   CLEAR
  ENDIF
 ENDIF
 RETU
```

```
****UPDA1 PROGRAM****
***FOR UPDATING THE PERSRECD RECORD
set talk off
clear
STORE IDCODE TO IDNO
STORE DATERT TO DOR
DORD=DTOC(DOR)
DOR1=RIGHT(DORD,2)
DOR2=LEFT(DORD,2)
DOR3=SUBSTR(DORD,4,2)
STORE RANKPR TO RANK
STORE LTNAME TO LNAM
STORE FMNAME TO FNAM
STORE DOFBTH TO DOB
DOBD=DTOC(DOB)
DOB1=RIGHT(DOBD,2)
DOB2=LEFT(DOBD,2)
DOB3=SUBSTR(DOBD,4,2)
STORE PERSEX TO PSEX
STORE MARSTS TO PMAR
STORE AGECH1 TO AGC1
STORE AGECH2 TO AGC2
STORE AGECH3 TO AGC3
STORE AGECH4 TO AGC4
STORE PSPOCC TO OCUP
STORE PSPSER TO SERV
STORE PSPEMP TO EMPR
STORE PSPPLA TO PLAC
STORE HOMTON TO HTON
STORE HOMSTA TO STAT
STORE PERADD TO PERA
STORE PERPIN TO PERP
STORE SCSTOT TO SCST
STORE EXSERM TO EXSM
STORE DATEJ6 TO DOJ
DOJD=DTOC(DOJ)
DOJ1=RIGHT(DOJD,2)
DOJ2=LEFT(DOJD,2)
DOJ3=SUBSTR(DOJD,4,2)
STORE FORAFT TO FAFT
STORE DESPOS TO DPOS
STORE DATPDE TO DOP
DOP1=RIGHT(DOP,2)
DOP2=LEFT(DOP,2)
@1,35 say 'PERSONNEL RECORD'
@1,0 SAY TIME()
@1,11 SAY 'RECNO: '+STR(R,5)
@1,70 SAY DATE() PICT 'E'
@2,0 TO 20,79 DOUBLE
@3,20 SAY '(1)  IDENTIFICATION No. : '+IDNO
@4,20 SAY '(2)  DATE OF RECEIPT - YEAR : '+DOR1+' MONTH : ';
+DOR2+' DAY : '+DOR3
@5,3 SAY '(3)  SHRI/SMT/etc. : '+RANK
@6,3 SAY '(4)  LAST NAME : '+LNAM
@6,36 SAY 'FIRST & MIDDLE NAME : '+FNAM
@7,3 SAY '(5)  DATE OF BIRTH - YEAR : '+DOB1+' MONTH : '+DOB2+' DAY : '+DO
@8,3 SAY '(6)  SEX CODE : '+PSEX
@8,22 SAY 'MARITAL STATUS : '+PMAR
@8,42 SAY 'AGE OF CHILDREN : '+AGC1+'  '+AGC2+'  '+AGC3+'  '+AGC4
@9,3 SAY '(7)  PARTICULARS OF SPOUSE - OCCUPATION CODE : '+OCUP+'  SERVICE
@10,8 SAY 'DETAILS OF EMPLOYER : '+EMPR
@11,8 SAY 'PLACE OF PRESENT POSTING : '+PLAC
@12,3 SAY '(8)  HOME TOWN : '+HTON+'  STATE : '+STAT
@13,3 SAY '(9)  PERMANENT ADDRESS : '+PERA
@15,3 SAY 'PIN CODE : '+PERP
```

```
@18,3 SAY '(12) FORENOON / AFTERNOON : '+FAFT+'   DESIGNATION CODE : '+D
@19,3 SAY '(13) DATE OF PASSING DEPARTMENTAL EXAM. - YEAR : '+DOP1+' MON
YES='Y'
DO WHILE UPPER(YES)='Y'
 APPU='  '
 @21,0 CLEAR
 @21,0 SAY 'Which field do you want to update?'
 @22,0 say 'Enter your choice from above displayed e.g 1,2,3,....,13'
 @23,0 say 'Enter field no. ' get appu pict '99'
 read
 @21,0 clear
 appu=val(appu)
 do case
 case appu=1
  DO WHILE .T.
   @3,46 GET IDNO PICT '9999'
   READ
   IF .NOT. VAL(IDNO)=0
    EXIT
   ENDIF
  ENDDO
 case appu=2
  DO WHILE .T.
   @4,50 GET DOR1 PICT '99'
   @4,61 GET DOR2 PICT '99'
   @4,70 GET DOR3 PICT '99'
   READ
   DOR=DOR2+'/'+DOR3+'/'+DOR1
   DOR=CTOD(DOR)
   IF .NOT. (DATE()<DOR .OR. DOR=CTOD('  /  /  '))
    EXIT
   ENDIF
  ENDDO
 case appu=3
  @5,24 GET RANK PICT '@X'
  read
 case appu=4
  @6,20 GET LNAM PICT '@A'
  @6,58 GET FNAM
  read
 case appu=5
  DO WHILE .T.
   @7,31 GET DOB1 PICT '99'
   @7,42 GET DOB2 PICT '99'
   @7,51 GET DOB3 PICT '99'
   read
   DOB=DOB2+'/'+DOB3+'/'+DOB1
   DOB=CTOD(DOB)
   QYR=YEAR(DATE())-YEAR(DOB)
   IF .NOT. (QYR>58 .OR. QYR<18 .OR. DOB=CTOD('  /  /  '))
    EXIT
   ENDIF
  ENDDO
 case appu=6
  DO UPDA01
 case appu=7
  DO UPDA01
 case appu=8
  @12,20 GET HTON
  @12,47 GET STAT
  READ
 CASE APPU=9
  @13,28 GET PERA
  @15,14 GET PERP PICT '999999'
  READ
 CASE APPU=10
  DO WHILE .T.
   @16,32 GET SCST PICT '9'
   READ
   IF SCST $ '123'
    EXIT
```

```
      ENDDO
      DO WHILE .T.
        @16,57 GET EXSM PICT '9'
       READ
       IF EXSM $ '12'
        EXIT
       ENDIF
      ENDDO
     CASE APPU=11
      DO WHILE .T.
       @17,47 GET DOJ1 PICT '99'
       @17,58 GET DOJ2 PICT '99'
       @17,67 GET DOJ3 PICT '99'
       READ
       IF DOJ1=' '
        EXIT
       ENDIF
       DOJ=DOJ2+'/'+DOJ3+'/'+DOJ1
       DOJ=CTOD(DOJ)
       IF .NOT. (DOJ>DATE() .OR. DOJ<DOB)
        EXIT
       ENDIF
      ENDDO
     CASE APPU=12
      DO WHILE .T.
       @18,31 GET FAFT PICT '9'
       READ
       IF FAFT $ '12'
        EXIT
       ENDIF
      ENDDO
      DO WHILE .T.
       @18,54 GET DPOS
       READ
       IF DPOS=' '
        EXIT
       ENDIF
       DPOS=UPPE(DPOS)
       SELE 2
       USE DESIG INDE DESIG
       SEEK DPOS
       IF .NOT. EOF()
        USE
        EXIT
       ENDIF
      ENDDO
     CASE APPU=13
      DO WHILE .T.
       @19,52 GET DOP1 PICT '99'
       @19,63 GET DOP2 PICT '99'
       READ
       IF DOP1=' '
        EXIT
       ENDIF
       DTE=VAL(RIGHT(DTOC(DATE()),2))
       DTE1=VAL(RIGHT(DTOC(DOB),2))
       IF .NOT. (VAL(DOP1)>DTE .OR. VAL(DOP1)<DTE1 .OR. VAL(DOP2)>12)
        DOP=DOP2+DOP1
        EXIT
       ENDIF
      ENDDO
     ENDCASE
     YES=' '
     do while .not. (upper(yes) $ 'YN')
     @ 21,0 clea
     @ 21,0 say 'Do you want to update more fields (Y or N)' get yes
     read
     enddo
    enddo
    APPU=0
    DO UPDA01
```

```
return

---------- PROGRAM NUMBER :  62 ---------- FOR CBEC

****UPDA10 PROGRAM****
***FOR UPDATION OF THE PRESENT POST/PAY INFORMATION
****IN THE PERSRECD FILE
set talk off
clear
STORE IDCODE TO IDNO
STORE PREPOS TO PPOS
STORE SCLPAY TO SPAY
STORE BASPAY TO BPAY
STORE SPPRPY TO SPPY
@ 1,32 say 'PRESENT POST & PAY RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '+str(r,5)
@ 1,72 say date() pict '@e'
@ 2,0 TO 14,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say '(1)  PRESENT POST : '+PPOS
@ 8,3`say '(2)  SCALE OF PAY : '+SPAY
@ 10,3 SAY '(3)  BASIC PAY : '+BPAY
@ 12,3 SAY '(4)  SPECIAL/PERSONAL PAY (IF ANY) : '+SPPY
YES='Y'
DO WHILE UPPER(YES)='Y'
 APPU='  '
 @21,0 CLEA
 @21,0 SAY 'Which field do you want to update?'
 @22,0 say 'Enter your choice from above displayed e.g 1,2,3,4.'
 @23,0 say 'Enter field no. ' get appu pict '99'
 read
 @21,0 clear
 appu=val(appu)
 do case
 CASE APPU=1
  DO WHILE .T.
   @6,23 GET PPOS
   READ
   PPOS=UPPE(PPOS)
   SELE 2
   USE DESIG INDE DESIG
   SEEK PPOS
   IF .NOT. EOF()
    USE
    EXIT
   ENDIF
  ENDDO
 case appu=2
  @8,23 GET SPAY
  READ
 CASE APPU=3
  @10,20 GET BPAY
  READ
 CASE APPU=4
  @12,40 GET SPPY
  READ
 ENDCASE
 YES=' '
 do while .not. (upper(yes) $ 'YN')
  @ 21,0 clea
  @ 21,0 say 'Do you want to update more fields (Y or N)' get yes
  read
 enddo
enddo
SELE 1
USE PERSRECD inde PERSRECD,PERSRETR,PERSPOST,PERSNAME
GO R
REPL PREPOS WITH PPOS,;
```

```
    BASPAY WITH BPAY,;
    SPPRPY WITH SPPY
CLEA
RETU
```

```
****UPDA11 PROGRAM****
***FOR UPDATING THE REWDAWRD FILE
set talk off
clear
STORE IDCODE TO IDNO
STORE RWDAWD TO REWD
STORE RANAME TO RNAM
STORE RAYEAR TO RYER
STORE RWDAMT TO RAMT
STORE NAMAUT TO AUTH
@ 1,32 say 'REWARD / AWARD RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '+str(r,5)
@ 1,72 say date() pict '@e'
@ 2,0 TO 12,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say '(1)  REWARD/AWARD (CODE) : '+REWD
@ 6,37 say 'NAME OF THE REWARD/AWARD : '+RNAM
@ 8,3 SAY '(2)  YEAR : '+RYER
@ 8,24 SAY 'AMOUNT RECEIVED : '+RAMT
@ 10,3 SAY '(3)  NAME OF THE AUTHORITY : '+AUTH
YES='Y'
DO WHILE UPPER(YES)='Y'
 APPU='  '
 @21,0 CLEA
 @21,0 SAY 'Which field do you want to update?'
 @22,0 say 'Enter your choice from above displayed e.g 1,2,3.'
 @23,0 say 'Enter field no. ' get appu pict '99'
 read
 @21,0 clear
 appu=val(appu)
 do case
 case appu=1
  DO WHILE .T.
   @6,30 GET REWD PICT '9'
   READ
   IF REWD $ '12'
    EXIT
   ENDIF
  ENDDO
  @6,64 GET RNAM
  READ
 case appu=2
  DO WHILE .T.
   @8,15 GET RYER PICT '99'
   READ
   DTE=VAL(RIGHT(DTOC(DATE()),2))
   YER=DTE-VAL(RYER)
   IF .NOT. (YER>47 .OR. VAL(RYER)>DTE .OR. VAL(RYER)=0)
    EXIT
   ENDIF
  ENDDO
  @8,40 GET RAMT PICT '999999'
  READ
 CASE APPU=3
  @10,32 GET AUTH
  READ
 ENDCASE
 YES='  '
 do while .not. (upper(yes) $ 'YN')
  @ 21,0 clea
  @ 21,0 say 'Do you want to update more fields (Y or N)' get yes
  read
 enddo
enddo
SELE 1
```

```
USE REWDAWRD INDE REWDAWRD
GO R
IDNO=trim(IDNO)
REPL  IDCODE WITH IDNO,;
      RWDAWD WITH REWD,;
      RANAME WITH RNAM,;
      RAYEAR WITH RYER,;
      RWDAMT WITH RAMT,;
      NAMAUT WITH AUTH
CLEA
RETU
```

```
****UPDA12 PROGRAM****
***FOR UPDATION OF THE EMPANELMENT INFORMATION
****IN THE PERSRECD FILE
set talk off
clear
STORE IDCODE TO IDNO
STORE EMPYER TO EYER
STORE EMPCOD TO ECOD
@ 1,32 say 'EMPANELMENT RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '+str(r,5)
@ 1,72 say date() pict '@e'
@ 2,0 TO 8,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say '(1)  YEAR : '+EYER
@ 6,24 say '(2)  POST FOR WHICH EMPANELLED : '+ECOD
YES='Y'
DO WHILE UPPER(YES)='Y'
 APPU='  '
 @21,0 CLEA
 @21,0 SAY 'Which field do you want to update?'
 @22,0 say 'Enter your choice from above displayed e.g 1,2.'
 @23,0 say 'Enter field no. ' get appu pict '99'
 read
 @21,0 clear
 appu=val(appu)
 do case
 case appu=1
  DO WHILE .T.
   @6,15 GET EYER PICT '99'
   READ
   DTE=VAL(RIGHT(DTOC(DATE()),2))
   YER=DTE-VAL(EYER)
   IF .NOT. (YER>47 .OR. VAL(EYER)>DTE .OR. VAL(EYER)=0)
    EXIT
   ENDIF
  ENDDO
 case appu=2
  DO WHILE .T.
   @6,55 GET ECOD PICT '9'
   READ
   IF ECOD $ '12345'
    EXIT
   ENDIF
  ENDDO
 ENDCASE
 YES=' '
 do while .not. (upper(yes) $ 'YN')
  @ 21,0 clea
  @ 21,0 say 'Do you want to update more fields (Y or N)' get yes
  read
 enddo
enddo
SELE 1
USE PERSRECD inde PERSRECD,PERSRETR,PERSPOST,PERSNAME
GO R
REPL EMPYER WITH EYER,;
     EMPCOD WITH ECOD
CLEA
RETU
```

```
****UPDA2 PROGRAM****
***FOR THE UPDATION OF THE ACADQUAL FILE
set talk off
clear
STORE IDCODE TO IDNO
STORE QUACOD TO QCOD
STORE QUAYER TO QYER
STORE QUAUNI TO QUNI
STORE QUADIV TO QDIV
STORE QUACOU TO QCOU
STORE QUASB1 TO QSB1
STORE QUASB2 TO QSB2
STORE QUASB3 TO QSB3
STORE QUASB4 TO QSB4
@ 1,32 say 'ACADEMIC QUALIFICATION RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '+str(r,5)
@ 1,72 say date() pict '@e'
@ 2,0 TO 18,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say '(1)  QUALIFICATION CODE : '+QCOD+'     YEAR : '+QYER
@ 8,3 say '(2)  UNIVERSITY : '+QUNI
@ 10,3 say '(3)  DIVISION : '+QDIV
@ 12,3 say '(4)  COURSE CODE : '+QCOU
@ 14,3 say '(5)  SUBJECTS CODE - [1] : '+QSB1+'     [2] : '+QSB2
@ 16,3 say '(6)                  [3] : '+QSB3+'     [4] : '+QSB4
YES='y'
DO WHILE UPPER(YES)='Y'
 APPU='  '
 @21,0 CLEA
 @21,0 SAY 'Which field do you want to update?'
 @22,0 say 'Enter your choice from above displayed e.g 1,2,3,.....,6'
 @23,0 say 'Enter field no. ' get appu pict '99'
 read
 @21,0 clear
 appu=val(appu)
 do case
 case appu=1
  DO WHILE .T.
   @6,29 GET QCOD PICT '99'
   READ
   SELE 2
   USE QUAL INDE QUAL
   SEEK QCOD
   IF .NOT. EOF()
    USE
    EXIT
   ENDIF
  ENDDO
  DO WHILE .T.
   @6,42 GET QYER PICT '99'
   READ
   DTE=VAL(RIGHT(DTOC(DATE()),2))
   YER=DTE-VAL(QYER)
   IF .NOT. (VAL(QYER)=0 .OR. YER>47 .OR. VAL(QYER)>DTE)
    EXIT
   ENDIF
  ENDDO
 case appu=2
  @8,21 GET QUNI
  READ
 CASE APPU=3
  DO WHILE .T.
   @10,19 GET QDIV PICT '9'
   READ
```

```
    EXIT
   ENDIF
  ENDDO
 CASE APPU=4
  DO WHILE .T.
   @12,22 GET QCOU PICT '9'
   READ
   SELE 2
   USE COUR INDE COUR
   SEEK QCOU
   IF .NOT. EOF()
    EXIT
   ENDIF
  ENDDO
 CASE APPU=5
  DO WHILE .T.
   @14,30 GET QSB1
   @14,43 GET QSB2
   READ
   QSB1=UPPE(QSB1)
   QSB2=UPPE(QSB2)
   SELE 2
   USE SUBJECT INDE SUBJECT
   SEEK QSB1
   IF .NOT. EOF()
    IF QSB2=' '
     EXIT
    ENDIF
    GO TOP
    SEEK QSB2
    IF .NOT. EOF()
     USE
     EXIT
    ENDIF
   ENDIF
  ENDDO
CASE APPU=6
 DO WHILE .T.
  @16,30 GET QSB3
  @16,43 GET QSB4
  READ
  QSB3=UPPE(QSB3)
  QSB4=UPPE(QSB4)
  IF QSB3=' '
   EXIT
  ENDIF
  SELE 2
  USE SUBJECT INDE SUBJECT
  SEEK QSB3
  IF .NOT. EOF()
   IF QSB4=' '
    EXIT
   ENDIF
   GO TOP
   SEEK QSB4
   IF .NOT. EOF()
    USE
    EXIT
   ENDIF
  ENDIF
 ENDDO
 ENDCASE
 YES=' '
 do while .not. (upper(yes) $ 'YN')
 @ 21,0 clea
 @ 21,0 say 'Do you want to update more fields (Y or N)' get yes
 read
 enddo
enddo
SELE 1
USE ACADQUAL inde ACADQUAL
GO B
```

```
IDNO=CFIXIDNO)
REPL IDCODE WITH IDNO,;
     QUACOD WITH QCOD,;
     QUAYER WITH QYER,;
     QUAUNI WITH QUNI
REPL QUADIV WITH QDIV,;
     QUACOU WITH QCOU,;
     QUASB1 WITH QSB1,;
     QUASB2 WITH QSB2
REPL QUASB3 WITH QSB3,;
     QUASB4 WITH QSB4
CLEA
RETU
```

```
****UPDAJ PROGRAM****
***FOR UPDATION OF THE EXTCRACT FILE
set talk off
clear
STORE IDCODE TO IDNO
STORE EXCODE TO ECOD
STORE SPNAM1 TO SPN1
STORE SPNAM2 TO SPN2
@ 1,32 say 'EXTRA CURRICULAR ACTIVITY RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '+str(r,5)
@ 1,72 say date() pict '@e'
@ 2,0 TO 12,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say '(1)  EXTRA CURRICULAR ACTIVITY CODE : '+ECOD
@ 8,8 say '(2)  NAME OF THE SPORT/ART/etc. : [1] : '+SPN1
@ 10,8 say '(3)                                [2] : '+SPN2
YES='y'
DO WHILE UPPER(YES)='Y'
 APPU='  '
 @21,0 CLEA
 @21,0 SAY 'Which field do you want to update?'
 @22,0 say 'Enter your choice from above displayed e.g 1,2,3.'
 @23,0 say 'Enter field no. ' get appu pict '99'
 read
 @21,0 clear
 appu=val(appu)
 do case
 case appu=1
  DO WHILE .T.
   @6,41 GET ECOD PICT '9'
   READ
   IF ECOD $ '12345'
    EXIT
   ENDIF
  ENDDO
  IF ECOD $ '34'
   STORE SPACE(19) TO SPN1,SPN2
  ENDIF
 case appu=2
  @8,48 GET SPN1
  READ
 CASE APPU=3
  @10,48 GET SPN2
  READ
 ENDCASE
 YES='  '
 do while .not. (upper(yes) $ 'YN')
 @ 21,0 clea
 @ 21,0 say 'Do you want to update more fields (Y or N)' get yes
 read
 enddo
enddo
SELE 1
USE EXTCRACT inde EXTCRACT
GO R
IDNO=trim(IDNO)
REPL IDCODE WITH IDNO,;
     EXCODE WITH ECOD,;
     SPNAM1 WITH SPN1,;
     SPNAM2 WITH SPN2
CLEA
RETU
```

```
****UPDA4 PROGRAM****
***FOR UPDATION OF THE LANGKNON FILE
set talk off
clear
STORE IDCODE TO IDNO
STORE LGCODE TO LCOD
STORE RDCODE TO RCOD
STORE SKCODE TO SCOD
STORE EMCODE TO ECOD
@ 1,32 say 'LANGUAGE KNOWN RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '+str(r,5)
@ 1,72 say date() pict '@e'
@ 2,0 TO 14,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say '(1)  LANGUAGE CODE : '+LCOD
@ 8,3 say '(2)  PROFICIENCY CODES -'
@ 9,8 SAY 'READING/WRITING : '+RCOD
@ 10,8 SAY '          SPEAKING : '+SCOD
@ 12,3 SAY '(3)  EXAMINATION PASSED CODE : '+ECOD
YES='y'
DO WHILE UPPER(YES)='Y'
 APPU='  '
 @21,0 CLEA
 @21,0 SAY 'Which field do you want to update?'
 @22,0 say 'Enter your choice from above displayed e.g 1,2,3.'
 @23,0 say 'Enter field no. ' get appu pict '99'
 read
 @21,0 clear
 appu=val(appu)
 do case
 case appu=1
  DO WHILE .T.
   @6,24 GET LCOD PICT '99'
   READ
   SELE 2
   USE LANGUAGE INDE LANGUAGE
   SEEK LCOD
   IF .NOT. EOF()
    USE
    EXIT
   ENDIF
  ENDDO
 case appu=2
  DO WHILE .T.
   @9,26 GET RCOD PICT '9'
   @10,26 GET SCOD PICT '9'
   READ
   IF (RCOD $ '12 ') .AND. (SCOD $ '12 ')
    EXIT
   ENDIF
  ENDDO
 CASE APPU=3
  DO WHILE .T.
   @12,34 GET ECOD PICT '9'
   READ
   IF ECOD $ '123456 '
    EXIT
   ENDIF
  ENDDO
 ENDCASE
 YES=' '
 do while .not. (upper(yes) $ 'YN')
  @ 21,0 clea
  @ 21,0 say 'Do you want to update more fields (Y or N)' get yes
  read
```

```
 enddo
enddo
SELE 1
USE LANGKNON inde LANGKNON
GO R
IDNO=trim(IDNO)
REPL IDCODE WITH IDNO,;
     LGCODE WITH LCOD,;
     RDCODE WITH RCOD,;
     SKCODE WITH SCOD,;
     EMCODE WITH ECOD
CLEA
RETU
```

```
****UPDA5 PROGRAM****
***FOR THE UPDATION OF THE APPTCONF RECORD
set talk off
clear
STORE IDCODE TO IDNO
STORE SLCODE TO SCOD
STORE DTGOVT TO DGO
DGOD=DTOC(DGO)
DGO1=RIGHT(DGOD,2)
DGO2=LEFT(DGOD,2)
DGO3=SUBSTR(DGOD,4,2)
STORE NDNAFT TO NAFT
STORE DTAPPT TO DAP
DAPD=DTOC(DAP)
DAP1=RIGHT(DAPD,2)
DAP2=LEFT(DAPD,2)
DAP3=SUBSTR(DAPD,4,2)
@ 1,25 say 'DATE OF APPOINTMENT/CONFIRMATION RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '+str(r,5)
@ 1,72 say date() pict '@e'
@ 2,0 TO 16,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say '(1)  SCALE CODE : '+SCOD
@ 8,3 say '(2)  DATE OF APPOINTMENT/PROMOTION CODES -'
@ 9,8 SAY 'YEAR : '+DGO1+' MONTH : '+DGO2+' DAY : '+DGO3
@ 11,3 SAY '(3)  FORENOON/AFTERNOON CODE : '+NAFT
@ 13,3 SAY '(4)  DATE OF CONFIRMATION -'
@ 14,8 SAY 'YEAR : '+DAP1+' MONTH : '+DAP2+' DAY : '+DAP3
YES='y'
DO WHILE UPPER(YES)='Y'
 APPU='  '
 @21,0 CLEA
 @21,0 SAY 'Which field do you want to update?'
 @22,0 say 'Enter your choice from above displayed e.g 1,2,3,4.'
 @23,0 say 'Enter field no. ' get appu pict '99'
 read
 @21,0 clear
 appu=val(appu)
 do case
 case appu=1
  DO WHILE .T.
   @6,21 GET SCOD PICT '9'
   READ
   IF SCOD $ '1234567'
    EXIT
   ENDIF
  ENDDO
 case appu=2
  DO WHILE .T.
   @9,15 GET DGO1 PICT '99'
   @9,26 GET DGO2 PICT '99'
   @9,35 GET DGO3 PICT '99'
   READ
   DGO=DGO2+'/'+DGO3+'/'+DGO1
   DGO=CTOD(DGO)
   YER=YEAR(DATE())-YEAR(DGO)
   IF .NOT. (YER>47 .OR. DGO>DATE())
    EXIT
   ENDIF
  ENDDO
 CASE APPU=3
  DO WHILE .T.
   @11,34 GET NAFT PICT '9'
   READ
   IF NAFT $ '12'
```

```
    EXIT
   ENDIF
  ENDDO
 CASE APPU=4
  DO WHILE .T.
   @14,15 GET DAP1 PICT '99'
   @14,26 GET DAP2 PICT '99'
   @14,35 GET DAP3 PICT '99'
   READ
   IF DAP1='  '
    DAP=CTOD('  /  /  ')
    EXIT
   ENDIF
   DAP=DAP2+'/'+DAP3+'/'+DAP1
   DAP=CTOD(DAP)
   YER=YEAR(DATE())-YEAR(DAP)
   IF .NOT. (YER>47 .OR. DAP>DATE() .OR. DAP<DGO)
    EXIT
   ENDIF
  ENDDO
 ENDCASE
 YES=' '
 do while .not. (upper(yes) $ 'YN')
  @ 21,0 clea
  @ 21,0 say 'Do you want to update more fields (Y or N)' get yes
  read
 enddo
enddo
SELE 1
USE APPTCONF inde APPTCONF
GO R
IDNO=trim(IDNO)
REPL IDCODE WITH IDNO,;
     SLCODE WITH SCOD,;
     DTGOVT WITH DGO,;
     NDNAFT WITH NAFT,;
     DTAPPT WITH DAP
CLEA
RETU
```

```
****UPDA6 PROGRAM****
***FOR UPDATION OF THE TRANCOUR FILE
set talk off
clear
STORE IDCODE TO IDNO
STORE NATTRN TO NTRN
STORE LEVCOR TO LCOR
STORE INSTIT TO INST
STORE DURATN TO DURN
STORE TRYEAR TO TRYR
@ 1,25 say 'TRAINING COURSE (ATTENDED IN INDIA) RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '+str(r,5)
@ 1,72 say date() pict '@e'
@ 2,0 TO 14,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say '(1)  CODE FOR NATURE OF TRAINING/COURSE : '+NTRN
@ 8,3 say '(2)  LEVEL OF THE COURSE : '+LCOR
@ 10,3 SAY '(3)  NAME OF INSTITUTION : '+INST
@ 12,3 SAY '(4)  DURATION (No. OF DAYS) : '+DURN+'     YEAR : '+TRYR
YES='y'
DO WHILE UPPER(YES)='Y'
 APPU='  '
 @21,0 CLEA
 @21,0 SAY 'Which field do you want to update?'
 @22,0 say 'Enter your choice from above displayed e.g 1,2,3,4.'
 @23,0 say 'Enter field no. ' get appu pict '99'
 read
 @21,0 clear
 appu=val(appu)
 do case
 case appu=1
  DO WHILE .T.
   @6,45 GET NTRN PICT '99'
   READ
   SELE 2
   USE TRAIN INDE TRAIN
   SEEK NTRN
   IF .NOT. EOF()
    USE
    EXIT
   ENDIF
  ENDDO
 case appu=2
  DO WHILE .T.
   @8,30 GET LCOR PICT '9'
   READ
   IF LCOR $ '12'
    EXIT
   ENDIF
  ENDDO
 CASE APPU=3
  @10,30 GET INST
  READ
 CASE APPU=4
  @12,33 GET DURN PICT '999'
  READ
  DO WHILE .T.
   @12,47 GET TRYR PICT '99'
   READ
   DTE=VAL(RIGHT(DTOC(DATE()),2))
   YER=DTE-VAL(TRYR)
   IF .NOT. (YER>47 .OR. VAL(TRYR)>DTE .OR. VAL(TRYR)=0)
    EXIT
   ENDIF
```

```
 ENDCASE
 YES=' '
 do while .not. (upper(yes) $ 'YN')
  @ 21,0 clea
 @ 21,0 say 'Do you want to update more fields (Y or N)' get yes
  read
 enddo
enddo
SELE 1
USE TRANCOUR inde TRANCOUR,TRANITRN
GO R
IDNO=trim(IDNO)
REPL IDCODE WITH IDNO,;
     NATTRN WITH NTRN,;
     LEVCOR WITH LCOR,;
     INSTIT WITH INST,;
     DURATN WITH DURN,;
     TRYEAR WITH TRYR
CLEA
RETU
```

```
****UPDA7 PROGRAM****
***FOR UPDATION OF THE TRABROAD FILE
set talk off
clear
STORE IDCODE TO IDNO
STORE NTRAIN TO NTRN
STORE LVLCOR TO LCOR
STORE TRCNTY TO TCNT
STORE INSTTN TO INST
STORE DURWKS TO DURN
STORE TRGYER TO TRYR
@ 1,25 say 'TRAINING COURSE (ATTENDED ABROAD) RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '+str(r,5)
@ 1,72 say date() pict '@e'
@ 2,0 TO 16,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say '(1)  CODE FOR NATURE OF TRAINING/COURSE : '+NTRN
@ 8,3 say '(2)  LEVEL OF THE COURSE : '+LCOR
@ 10,3 SAY '(3)  NAME OF THE COUNTRY : '+TCNT
@ 12,3 SAY '(4)  NAME OF INSTITUTION : '+INST
@ 14,3 SAY '(5)  DURATION (No OF WEEKS) : '+DURN+'     YEAR : '+TRYR
YES='y'
DO WHILE UPPER(YES)='Y'
 APPU='  '
 @21,0 CLEA
 @21,0 SAY 'Which field do you want to update?'
 @22,0 say 'Enter your choice from above displayed e.g 1,2,3,...5.'
 @23,0 say 'Enter field no. ' get appu pict '99'
 read
 @21,0 clear
 appu=val(appu)
 do case
 case appu=1
  DO WHILE .T.
   @6,45 GET NTRN PICT '99'
   READ
   SELE 2
   USE ATRAIN INDE ATRAIN
   SEEK NTRN
   IF .NOT. EOF()
    USE
    EXIT
   ENDIF
  ENDDO
 case appu=2
  DO WHILE .T.
   @8,30 GET LCOR PICT '9'
   READ
   IF LCOR $ '12'
    EXIT
   ENDIF
  ENDDO
 CASE APPU=3
  DO WHILE .T.
   @10,30 GET TCNT PICT '999'
   READ
   SELE 2
   USE COUNTRY INDE COUNTRY
   SEEK TCNT
   IF .NOT. EOF()
    USE
    EXIT
   ENDIF
  ENDDO
```

```
  @12,30 GET INST
  READ
 CASE APPU=5
  @14,33 GET DURN PICT '999'
  READ
  DO WHILE .T.
   @14,47 GET TRYR PICT '99'
   READ
   DTE=VAL(RIGHT(DTOC(DATE()),2))
   YER=DTE-VAL(TRYR)
   IF .NOT. (YER>47 .OR. VAL(TRYR)>DTE .OR. VAL(TRYR)=0)
    EXIT
   ENDIF
  ENDDO
 ENDCASE
 YES=' '
 do while .not. (upper(yes) $ 'YN')
  @ 21,0 clea
  @ 21,0 say 'Do you want to update more fields (Y or N)' get yes
  read
 enddo
enddo
SELE 1
USE TRABROAD inde TRABROAD,TRANATRN
GO R
IDNO=trim(IDNO)
REPL IDCODE WITH IDNO,;
     NTRAIN WITH NTRN,;
     LVLCOR WITH LCOR,;
     TRCNTY WITH TCNT,;
     INSTTN WITH INST,;
     DURWKS WITH DURN,;
     TRGYER WITH TRYR
CLEA
RETU
```

```
****UPDA8 PROGRAM****
***FOR UPDATION OF THE PARTINTN FILE
set talk off
clear
STORE IDCODE TO IDNO
STORE PARTPN TO PARN
STORE CVENUE TO CVEN
STORE CNFYER TO CYER
@ 1,25 say 'PARTICIPATION IN CONFERENCES/etc. RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '+str(r,5)
@ 1,72 say date() pict '@e'
@ 2,0 TO 10,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say '(1)  PARTICIPATION CODE : '+PARN
@ 8,3 say '(2)  VENUE : '+CVEN+'        YEAR : '+CYER
YES='Y'
DO WHILE UPPER(YES)='Y'
 APPU='  '
 @21,0 CLEA
 @21,0 SAY 'Which field do you want to update?'
 @22,0 say 'Enter your choice from above displayed e.g 1,2.'
 @23,0 say 'Enter field no. ' get appu pict '99'
 read
 @21,0 clear
 appu=val(appu)
 do case
 case appu=1
  DO WHILE .T.
   @6,29 GET PARN PICT '99'
   READ
   SELE 2
   USE PARTICIPATION INDE PARTICIPATION
   SEEK PARN
   IF .NOT. EOF()
    USE
    EXIT
   ENDIF
  ENDDO
 case appu=2
  @8,16 GET CVEN
  READ
  DO WHILE .T.
   @8,49 GET CYER PICT '99'
   READ
   DTE=VAL(RIGHT(DTOC(DATE()),2))
   YER=DTE-VAL(CYER)
   IF .NOT. (YER>47 .OR. VAL(CYER)>DTE .OR. VAL(CYER)=0)
    EXIT
   ENDIF
  ENDDO
 ENDCASE
 YES='  '
 do while .not. (upper(yes) $ 'YN')
  @ 21,0 clea
  @ 21,0 say 'Do you want to update more fields (Y or N)' get yes
  read
 enddo
enddo
SELE 1
USE PARTINTN inde PARTINTN
GO R
IDNO=trim(IDNO)
REPL IDCODE WITH IDNO,;
     PARTPN WITH PARN,;
```

```
****UPDA9 PROGRAM****
***FOR THE UPDATION OF THE HISTSERV FILE
set talk off
clear
STORE IDCODE TO IDNO
STORE SRPOST TO POST
STORE SRCNTY TO CNTY
STORE SRCITY TO CITY
STORE SRDEPT TO DEPM
STORE YRFROM TO YRFR
STORE MTFROM TO MTFR
STORE YEARTO TO YRTO
STORE MOTHTO TO MTTO
@ 1,32 say 'HISTORY OF SERVICE RECORD'
@ 1,0 say time()
@ 1,10 say 'rec.no '+str(r,5)
@ 1,72 say date() pict '@e'
@ 2,0 TO 16,79 DOUB
@ 4,3 say 'IDENTIFICATION NUMBER : '+IDNO
@ 6,3 say '(1)  POST : '+POST
@ 8,3 say '(2)  COUNTRY : '+CNTY+'       CITY : '+CITY
@ 10,3 SAY '(3)  DEPARTMENT CODE : '+DEPM
@ 12,3 SAY '(4)  FROM - YEAR : '+YRFR+' MONTH : '+MTFR
@ 14,3 SAY '        TO - YEAR : '+YRTO+' MONTH : '+MTTO
YES='Y'
DO WHILE UPPER(YES)='Y'
 APPU='  '
 @21,0 CLEA
 @21,0 SAY 'Which field do you want to update?'
 @22,0 say 'Enter your choice from above displayed e.g 1,2,3,4.'
 @23,0 say 'Enter field no. ' get appu pict '99'
 read
 @21,0 clear
 appu=val(appu)
 do case
 case appu=1
  DO WHILE .T.
   @6,15 GET POST
   READ
   POST=UPPE(POST)
   SELE 2
   USE DESIG INDE DESIG
   SEEK POST
   IF .NOT. EOF()
    USE
    EXIT
   ENDIF
  ENDDO
 case appu=2
  DO WHILE .T.
   @8,18 GET CNTY PICT '999'
   READ
   IF CNTY='  '
    EXIT
   ENDIF
   SELE 2
   USE COUNTRY INDE COUNTRY
   SEEK CNTY
   IF .NOT. EOF()
    USE
    EXIT
   ENDIF
  ENDDO
  @8,34 GET CITY
  READ
```

```
   DO WHILE .T.
    @10,26 GET DEPM PICT '99'
    READ
    SELE 2
    USE DEPT INDE DEPT
    SEEK DEPM
    IF .NOT. EOF()
     USE
     EXIT
    ENDIF
   ENDDO
  CASE APPU=4
   DO WHILE .T.
    @12,22 GET YRFR PICT '99'
    READ
    DTE=VAL(RIGHT(DTOC(DATE()),2))
    YER=DTE-VAL(YRFR)
    IF .NOT. (YER>47 .OR. VAL(YRFR)>DTE .OR. VAL(YRFR)=0)
     EXIT
    ENDIF
   ENDDO
   DO WHILE .T.
    @12,33 GET MTFR PICT '99'
    READ
    IF .NOT. (VAL(MTFR) > 12)
     EXIT
    ENDIF
   ENDDO
   IF .NOT. (YRTO=' ')
    DO WHILE .T.
     @14,22 GET YRTO PICT '99'
     READ
     DTE=VAL(RIGHT(DTOC(DATE()),2))
     YER=DTE-VAL(YRTO)
     IF .NOT. (YER>47 .OR. VAL(YRTO)>DTE)
      EXIT
     ENDIF
    ENDDO
    DO WHILE .T.
     @14,33 GET MTTO PICT '99'
     READ
     IF .NOT. (VAL(MTTO)>12)
      EXIT
     ENDIF
    ENDDO
   ENDIF
  ENDCASE
  YES=' '
  do while .not. (upper(yes) $ 'YN')
   @ 21,0 clea
   @ 21,0 say 'Do you want to update more fields (Y or N)' get yes
   read
  enddo
enddo
SELE 1
USE HISTSERV inde HISTSERV
GO R
IDNO=trim(IDNO)
REPL IDCODE WITH IDNO,;
     SRPOST WITH POST,;
     SRCNTY WITH CNTY,;
     SRCITY WITH CITY
REPL SRDEPT WITH DEPM,;
     YRFROM WITH YRFR,;
     MTFROM WITH MTFR,;
     YEARTO WITH YRTO,;
     MOTHTO WITH MTTO
CLEA
RETU
```

```
 DO WHILE .T.
  @10,26 GET DEPM PICT '99'
  READ
  SELE 2
  USE DEPT INDE DEPT
  SEEK DEPM
  IF .NOT. EOF()
   USE
   EXIT
  ENDIF
 ENDDO
CASE APPU=4
 DO WHILE .T.
  @12,22 GET YRFR PICT '99'
  READ
  DTE=VAL(RIGHT(DTOC(DATE()),2))
  YER=DTE-VAL(YRFR)
  IF .NOT. (YER>47 .OR. VAL(YRFR)>DTE .OR. VAL(YRFR)=0)
   EXIT
  ENDIF
 ENDDO
 DO WHILE .T.
  @12,33 GET MTFR PICT '99'
  READ
  IF .NOT. (VAL(MTFR) > 12)
   EXIT
  ENDIF
 ENDDO
 IF .NOT. (YRTO=' ')
  DO WHILE .T.
   @14,22 GET YRTO PICT '99'
   READ
   DTE=VAL(RIGHT(DTOC(DATE()),2))
   YER=DTE-VAL(YRTO)
   IF .NOT. (YER>47 .OR. VAL(YRTO)>DTE)
    EXIT
   ENDIF
  ENDDO
  DO WHILE .T.
   @14,33 GET MTTO PICT '99'
   READ
   IF .NOT. (VAL(MTTO)>12)
    EXIT
   ENDIF
  ENDDO
 ENDIF
ENDCASE
YES=' '
do while .not. (upper(yes) $ 'YN')
 @ 21,0 clea
 @ 21,0 say 'Do you want to update more fields (Y or N)' get yes
 read
enddo
enddo
SELE 1
USE HISTSERV inde HISTSERV
GO R
IDNO=trim(IDNO)
REPL IDCODE WITH IDNO,;
     SRPOST WITH POST,;
     SRCNTY WITH CNTY,;
     SRCITY WITH CITY
REPL SRDEPT WITH DEPM,;
     YRFROM WITH YRFR,;
     MTFROM WITH MTFR,;
     YEARTO WITH YRTO,;
     MOTHTO WITH MTTO
CLEA
RETU
```

```
***************update PROGRAM**************
***FOR THE UPDATION OF A RECORDS IN A
****PARTICULAR FILE
set talk off
clea
do datmenu
if fname=0
    retu
endif
go top
if eof()
  ? 'There are no records in the file '
  wait
  CLEA
  return
endif
custom = 'Y'
SET DATE AMER
do while upper(custom) = 'Y'
 clea
 @ 3,10 say 'Updating the '+ff
 GO TOP
 count to a
 @ 5,10 say 'There are '+str(a,5)+' records in the file '
 IDNO=SPACE(4)
 @ 10,10 SAY 'As the specification of the record which you want to update
 @ 12,10 SAY 'Enter the identification no. : ' GET IDNO PICT '9999'
 READ
 clear
 R=0
 GO TOP
 SEEK IDNO
 IF .NOT. EOF()
  R=RECNO()
 ENDIF
 CLEAR
 IF .NOT. (FNAME=1 .OR. FNAME=10 .OR. FNAME=12)
  RQ='  '
  @ 10,10 SAY 'Please enter the record no. of '+ff
  @ 12,30 GET RQ PICT '99999'
  READ
  R = VAL(RQ)
  IF R <= A
   GO R
   IF .NOT. (IDCODE=IDNO)
    R=0
   ENDIF
  ENDIF
 ENDIF
 CLEAR
 IF (R = 0 .OR. R > a)
  @ 10,10 SAY 'Identification no. : '+IDNO
  IF .NOT. (FNAME=1 .OR. FNAME=10 .OR. FNAME=12)
   @ 12,12 SAY 'does not tally Record no. : '+RQ
  ELSE
   @ 12,10 SAY 'No such record exists in the '+ff
  ENDIF
  CUSTOM=' '
  DO WHILE .NOT. (UPPE(CUSTOM) $ 'YN')
   @ 14,10 SAY 'Do you want to try again (Y or N) : ' GET CUSTOM
   READ
  ENDDO
  CLEA
  IF UPPE(CUSTOM)='Y'
   LOOP
```

```
   RELE CUSTOM,IDNO
    RETU
  ENDIF
 ENDIF
 go r
 DO CASE
 CASE fname=1
  do upda1
 CASE FNAME=2
  DO UPDA2
 CASE FNAME=3
  DO UPDA3
 CASE FNAME=4
  DO UPDA4
 CASE FNAME=5
  DO UPDA5
 CASE FNAME=6
  DO UPDA6
 CASE FNAME=7
  DO UPDA7
 CASE FNAME=8
  DO UPDA8
 CASE FNAME=9
  DO UPDA9
 CASE FNAME=10
  DO UPDA10
 CASE FNAME=11
  DO UPDA11
 CASE FNAME=12
  DO UPDA12
 ENDCASE
 clea
 custom=' '
 do while .not. (upper(custom) $ 'YN')
  @ 10,0 say 'Do you want to update more records of '+fff+';
 (Y or N)'
  @ 11,10 say 'Enter your choice' get custom
  read
 enddo
 clea
 if upper(custom)= 'Y'
  loop
 else
  CLOSE ALL
  EXIT
 endif
enddo
clea
return
```

---------- PROGRAM NUMBER : 74 ---------- FOR CBEC

```
**********VAL1 PROGRAM**********
***FOR VALIDATION OF THE WHOLE BIODATA RECORD
clea
sele 4
use PERSRECD
GO RENO
@ 10,10 SAY 'VALIDATION IN PROGRESS'
set devi to prin
@ 1,40 SAY '****************************************'
@ PROW()+1,40 SAY '*    PERSONNEL INFORMATION SYSTEM     *'
@ PROW()+1,40 SAY '*            C  B  E  C               *'
@ PROW()+1,40 SAY '****************************************'
@ PROW()+2,40 SAY '      ERROR LISTING OF  BIO-DATA'
@ PROW()+1,55 SAY DTOC(DATE())
DO WHILE .NOT. EOF()
store IDCODE to IDNO
store DATERT to DOR
store DOFBTH to DOB
store PERSEX to PSEX
store MARSTS to PMAR
store AGECH1 to AGC1
store AGECH2 to AGC2
store AGECH3 to AGC3
store AGECH4 to AGC4
store PSPOCC to OCUP
store PSPSER to SERV
store SCSTOT to SCST
store EXSERM to EXSM
store DATEJG to DOJ
store FORAFT to FAFT
store DESPOS to DPOS
store DATPDE to DOP
@ PROW()+2,1 SAY REPL('*',100)
@ PROW()+2,1 SAY 'IDENTIFICATION NO. : '+IDNO
@ PROW()+1,1 SAY REPL('-',100)
@ PROW()+2,10 SAY 'IN PERSONNEL RECORD :'
if val(IDNO)=0
 @ prow()+2,1 say 'Identification number is not correct : '+IDNO
endif
if DATE() < DOR .OR. DOR=CTOD('  /  /  ')
 @ prow()+2,1 SAY 'Date of receipt is not correct : '+DTOC(DOR)
endif
qyr=year(date())-year(DOB)
if qyr > 58 .or. qyr < 18 .or. DOB=ctod('  /  /  ')
 @ prow()+2,1 say 'Date of birth is not correct : '+DTOC(DOB)
endif
if .not. PSEX $ '12'
 @ prow()+2,1 say 'Sex code is not correct : '+PSEX
endif
if .not. PMAR $ '123'
 @ prow()+2,1 say 'Marital Status code is not correct : '+PMAR
endif
IF PMAR='2'
STORE SPACE(2) TO AGC1,AGC2,AGC3,AGC4
endif
QYR=QYR-12
IF VAL(AGC1) > QYR
 @ PROW()+2,1 SAY 'Age of first child is not valid : '+AGC1
ENDIF
IF VAL(AGC2) > QYR
 @ PROW()+2,1 SAY 'Age of second child is not valid : '+AGC2
ENDIF
IF VAL(AGC3) > QYR
 @ PROW()+2,1 SAY 'Age of third child is not valid : '+AGC3
ENDIF
```

```
 @ PROW()+2,1 SAY 'Age of fourth child is not valid : '+AGC4
ENDIF
IF .NOT. OCUP $ '12'
 @ PROW()+2,1 SAY 'Occupation of spouse is not valid : '+OCUP
ENDIF
IF .NOT. SERV $ '12 '
 @ PROW()+2,1 SAY "Spouse's service code is not valid : "+SERV
ENDIF
if .not. SCST $ '123'
 @ prow()+2,1 say 'SC / ST code is not correct : '+SCST
endif
if .not. exsM $ '12'
 @ prow()+2,1 say 'Exserviceman code is not correct : '+EXSM
endif
IF .NOT. (DOJ = CTOD('  /  /  '))
 IF (DOJ > DATE()) .OR. (DOJ < DOB)
  @ PROW()+2,1 SAY 'Date of joining Government service is not valid : '+D
 ENDIF
ENDIF
IF .NOT. FAFT $ '12 '
 @ PROW()+2,1 SAY 'Forenoon / afternoon code is not correct : '+FAFT
ENDIF
IF .NOT. (DPOS = '  ')
 sele 2
 use desig inde desig
 seek DPOS
 if eof()
  @ prow()+2,1 say 'Designation code is not correct : '+DPOS
 endif
 USE
ENDIF
IF .NOT. (DOP = '  ')
 DOP1=VAL(LEFT(DOP,2))
 DOP2=VAL(RIGHT(DOP,2))
 DTE=VAL(RIGHT(DTOC(DATE()),2))
 DTE1=VAL(RIGHT(DTOC(DOB),2))
 if (DOP2 > DTE) .or. (DOP2 < DTE1)
  @ prow()+2,1 say 'Date of passing departmental exam is not valid : '+'Y
 endif
ENDIF
DO VALB2
DO VALC3
DO VALD4
DO VALE5
DO VALF6
DO VALG7
DO VALH8
DO VALI9
DO VALJ10
DO VALK11
DO VALL12
SELE 4
SKIP
ENDDO
@ PROW()+1,1 SAY REPL('*',100)
@ PROW()+1,1 SAY REPL('*',100)
SET DEVI TO SCRE
CLEA
RETU
```

```
**********************VAL10 PROGRAM**********************
***FOR VALIDATING THE PRESENT POST/PAY RECORD IN THE
****PERSRECD FILE
SELE 4
USE PERSRECD
clea
GO RENO
@ 10,10 SAY 'VALIDATING THE PRESENT POST & PAY FILE'
set devi to prin
@ 1,40 SAY '****************************************'
@ PROW()+1,40 SAY '*    PERSONNEL INFORMATION SYSTEM    *'
@ PROW()+1,40 SAY '*            C  B  E  C              *'
@ PROW()+1,40 SAY '****************************************'
@ PROW()+2,40 SAY '      ERROR LISTING OF  BIO-DATA'
@ PROW()+1,55 SAY DTOC(DATE())
@ PROW()+2,10 SAY 'IN PRESENT POST & PAY FILE  :'
@ PROW()+2,1 SAY REPL('*',100)
DO WHILE .NOT. EOF()
 @ PROW()+2,5 SAY 'Identification no. : '+IDCODE
 @ PROW(),70 SAY 'Record number : '+str(recno(),6)
 STORE PREPOS TO PPOS
 SELE 2
 USE DESIG INDE DESIG
 SEEK PPOS
 IF EOF()
  @PROW()+2,1 SAY 'The post code is not correct : '+PPOS
 ENDIF
 USE
 @ prow()+1,1 say repl('-',100)
*********************
 SELE 4
 skip
ENDDO
@ prow()+1,1 say repl('*',100)
SET DEVI TO SCRE
CLEA
RETU
```

```
**********VAL11 PROGRAM**********
***FOR VALIDATING THE REWDAWRD FILE
sele 3
use REWDAWRD
clea
GO RENO
@ 10,10 SAY 'VALIDATING THE REWARD / AWARD FILE'
set devi to prin
@ 1,40 SAY '****************************************'
@ PROW()+1,40 SAY '*    PERSONNEL INFORMATION SYSTEM     *'
@ PROW()+1,40 SAY '*            C  B  E  C               *'
@ PROW()+1,40 SAY '****************************************'
@ PROW()+2,40 SAY '      ERROR LISTING OF  BIO-DATA'
@ PROW()+1,55 SAY DTOC(DATE())
@ PROW()+2,10 SAY 'IN REWARD / AWARD FILE  :'
@ PROW()+2,1 SAY REPL('*',100)
DO WHILE .NOT. EOF()
 @ PROW()+2,5 SAY 'Identification no. : '+IDCODE
 @ PROW(),70 SAY 'Record number : '+str(recno(),6)
 store RWDAWD to REWD
 STORE RAYEAR TO RYER
 IF .NOT. REWD $ '12'
  @ PROW()+2,1 SAY 'The code for reward/award is not correct : '+REWD
 ENDIF
 DTE=RIGHT(DTOC(DATE()),2)
 YER = VAL(DTE) - VAL(RYER)
 IF (YER > 47 .OR. VAL(RYER) > VAL(DTE) .OR. VAL(RYER) = 0)
  @ PROW()+2,1 SAY 'The year given is not correct : '+RYER
 ENDIF
 @ prow()+1,1 say repl('-',100)
*********************
 sele 3
 skip
ENDDO
@ prow()+1,1 say repl('*',100)
SET DEVI TO SCRE
CLEA
RETU
```

```
**********************VAL12 PROGRAM**********************
***FOR THE VALIDATION OF THE EMPANELMENT DATA IN THE
****PERSRECD FILE
SELE 4
USE PERSRECD
clea
GO RENO
@ 10,10 SAY 'VALIDATING THE EMPANELMENT FILE'
set devi to prin
@ 1,40 SAY '****************************************'
@ PROW()+1,40 SAY '*    PERSONNEL INFORMATION SYSTEM     *'
@ PROW()+1,40 SAY '*            C  B  E  C               *'
@ PROW()+1,40 SAY '****************************************'
@ PROW()+2,40 SAY '      ERROR LISTING OF  BIO-DATA'
@ PROW()+1,55 SAY DTOC(DATE())
@ PROW()+2,10 SAY 'IN EMPANELMENT FOR US/DS/etc. FILE  :'
@ PROW()+2,1 SAY REPL('*',100)
DO WHILE .NOT. EOF()
 @ PROW()+2,5 SAY 'Identification no. : '+IDCODE
 @ PROW(),70 SAY 'Record number : '+str(recno(),6)
 store EMPYER to EYER
 STORE EMPCOD TO ECOD
 DTE=RIGHT(DTOC(DATE()),2)
 YER = VAL(DTE) - VAL(EYER)
 IF (YER > 47 .OR. VAL(EYER) > VAL(DTE) .OR. VAL(EYER) = 0)
  @ PROW()+2,1 SAY 'The year given is not correct : '+EYER
 ENDIF
 IF .NOT. ECOD $ '12345'
  @ PROW()+2,1 SAY 'The post code for which empanelled is not correct : '+
 ENDIF
 @ prow()+1,1 say repl('-',100)
 **********************
 SELE 4
 skip
ENDDO
@ prow()+1,1 say repl('*',100)
SET DEVI TO SCRE
CLEA
RETU
```

```
**********VAL2 PROGRAM**********
***FOR VALIDATION OF THE ACADQUAL FILE
sele 3
use ACADQUAL
clea
GO RENO
@ 10,10 SAY 'VALIDATING THE ACADEMIC QUALIFICATION FILE'
set devi to prin
@ 1,40 SAY '****************************************'
@ PROW()+1,40 SAY '*    PERSONNEL INFORMATION SYSTEM     *'
@ PROW()+1,40 SAY '*            C  B  E  C               *'
@ PROW()+1,40 SAY '****************************************'
@ PROW()+2,40 SAY '      ERROR LISTING OF  BIO-DATA'
@ PROW()+1,55 SAY DTOC(DATE())
@ PROW()+2,10 SAY 'IN ACADEMIC QUALIFICATION FILE  :'
@ PROW()+2,1 SAY REPL('*',100)
DO WHILE .NOT. EOF()
 @ PROW()+2,5 SAY 'Identification no. : '+IDCODE
 @ PROW(),70 SAY 'Record number : '+str(recno(),6)
 store QUACOD to QCOD
 store QUAYER to QYER
 store QUADIV to QDIV
 store QUACOU to QCOU
 store QUASB1 to QSB1
 store QUASB2 to QSB2
 store QUASB3 to QSB3
 store QUASB4 to QSB4
 sele 2
 use qual inde qual
 seek QCOD
 IF EOF()
  @ prow()+2,1 SAY 'Code for Qualification is not correct : '+QCOD
 ENDIF
 USE
 DTE=VAL(RIGHT(DTOC(DATE()),2))
 YER=DTE - VAL(QYER)
 if (val(QYER)=0 .OR. YER > 47 .OR. VAL(QYER) > DTE)
  @ prow()+2,1 say 'Year entry is not correct : '+QYER
 endif
 IF .NOT. QDIV $ '123'
  @ prow()+2,1 SAY 'The code for division is not correct : '+QDIV
 ENDIF
 IF .NOT. QCOU $ '12345679'
  @ prow()+2,1 SAY 'Course code is not correct : '+QCOU
 ENDIF
 sele 2
 QSB1=uppe(QSB1)
 USE SUBJECT INDE SUBJECT
 seek QSB1
 IF EOF()
  @ prow()+2,1 SAY 'Code for Subject1 is not correct : '+QSB1
 ENDIF
 IF .NOT. (QSB2=' ')
  go top
  QSB2=UPPE(QSB2)
  seek QSB2
  IF EOF()
   @ prow()+2,1 SAY 'Code for Subject2 is not correct : '+QSB2
  ENDIF
 ENDIF
 IF .NOT. (QSB3=' ')
  go top
  QSB3=UPPE(QSB3)
  seek QSB3
  IF EOF()
```

```
 ENDIF
 IF .NOT. (QSB4=' ')
  go top
  QSB4=UPPE(QSB4)
  seek QSB4
  IF EOF()
   @ prow()+2,1 SAY 'Code for Subject4 is not correct : '+QSB4
  ENDIF
 ENDIF
 USE
 @ prow()+1,1 say repl('-',100)
*********************
 sele 3
 skip
ENDDO
@ prow()+1,1 say repl('*',100)
SET DEVI TO SCRE
CLEA
RETU
```

---------- PROGRAM NUMBER : 79 ---------- FOR CBEC

```
**********************VAL3 PROGRAM**********************
***FOR THE VALIDATION OF THE EXTCRACT FILE
sele 3
use EXTCRACT
clea
GO RENO
@ 10,10 SAY 'VALIDATING THE EXTRA CURRICULAR ACTIVITY FILE'
set devi to prin
@ 1,40 SAY '****************************************'
@ PROW()+1,40 SAY '*    PERSONNEL INFORMATION SYSTEM    *'
@ PROW()+1,40 SAY '*            C  B  E  C              *'
@ PROW()+1,40 SAY '****************************************'
@ PROW()+2,40 SAY '      ERROR LISTING OF  BIO-DATA'
@ PROW()+1,55 SAY DTOC(DATE())
@ PROW()+2,10 SAY 'IN EXTRA CURRICULAR ACTIVITY FILE  :'
@ PROW()+2,1 SAY REPL('*',100)
DO WHILE .NOT. EOF()
 @ PROW()+2,5 SAY 'Identification no. : '+IDCODE
 @ PROW(),70 SAY 'Record number : '+str(recno(),6)
 store EXCODE to ECOD
 IF .NOT. ECOD $ '12345'
 @ prow()+2,1 SAY 'The code for name of extra curricular activity is not
 ENDIF
 @ prow()+1,1 say repl('-',100)
*********************
 sele 3
 skip
ENDDO
@ prow()+1,1 say repl('*',100)
SET DEVI TO SCRE
CLEA
RETU
```

```
---------------------- PROGRAM NUMBER :  80 ---------------------- FOR CBEC

**********************VAL4 PROGRAM**********************
***FOR VALIDATION OF THE LANGKNON FILE
sele 3
use LANGKNON
clea
GO RENO
@ 10,10 SAY 'VALIDATING THE LANGUAGES FILE'
set devi to prin
@ 1,40 SAY '****************************************'
@ PROW()+1,40 SAY '*    PERSONNEL INFORMATION SYSTEM     *'
@ PROW()+1,40 SAY '*            C  B  E  C               *'
@ PROW()+1,40 SAY '****************************************'
@ PROW()+2,40 SAY '      ERROR LISTING OF  BIO-DATA'
@ PROW()+1,55 SAY DTOC(DATE())
@ PROW()+2,10 SAY 'IN LANGUAGES FILE  :'
@ PROW()+2,1 SAY REPL('*',100)
DO WHILE .NOT. EOF()
 @ PROW()+2,5 SAY 'Identification no. : '+IDCODE
 @ PROW(),70 SAY 'Record number : '+str(recno(),6)
 store LGCODE to LCOD
 STORE RDCODE TO RCOD
 STORE SKCODE TO SCOD
 STORE EMCODE TO ECOD
 SELE 2
 USE LANGUAGES INDE LANGUAGES
 SEEK LCOD
 IF EOF()
  @ PROW()+2,1 SAY 'The code for language is not correct : '+LCOD
 endif
 USE
 IF .NOT. RCOD $ '12 '
  @ prow()+2,1 SAY 'The code for proficiency in reading/writing is not cor
 ENDIF
 IF .NOT. SCOD $ '12 '
  @ PROW()+2,1 SAY 'The code for proficiency in speaking is not correct :
 ENDIF
 IF .NOT. ECOD $ '123456 '
  @ PROW()+2,1 SAY 'The code for examination passed is not correct : '+ECO
 ENDIF
 @ prow()+1,1 say repl('-',100)
********************
 sele 3
 skip
ENDDO
@ prow()+1,1 say repl('*',100)
SET DEVI TO SCRE
CLEA
RETU
```

---------- PROGRAM NUMBER : 80 ---------- FOR CDEC

```
**********************VAL4 PROGRAM**********************
***FOR VALIDATION OF THE LANGKNON FILE
sele 3
use LANGKNON
clea
GO RENO
@ 10,10 SAY 'VALIDATING THE LANGUAGES FILE'
set devi to prin
@ 1,40 SAY '****************************************'
@ PROW()+1,40 SAY '*    PERSONNEL INFORMATION SYSTEM     *'
@ PROW()+1,40 SAY '*            C  B  E  C               *'
@ PROW()+1,40 SAY '****************************************'
@ PROW()+2,40 SAY '      ERROR LISTING OF  BIO-DATA'
@ PROW()+1,55 SAY DTOC(DATE())
@ PROW()+2,10 SAY 'IN LANGUAGES FILE  :'
@ PROW()+2,1 SAY REPL('*',100)
DO WHILE .NOT. EOF()
 @ PROW()+2,5 SAY 'Identification no. : '+IDCODE
 @ PROW(),70 SAY 'Record number : '+str(recno(),6)
 store LGCODE to LCOD
 STORE RDCODE TO RCOD
 STORE SKCODE TO SCOD
 STORE EMCODE TO ECOD
 SELE 2
 USE LANGUAGES INDE LANGUAGES
 SEEK LCOD
 IF EOF()
  @ PROW()+2,1 SAY 'The code for language is not correct : '+LCOD
 endif
 USE
 IF .NOT. RCOD $ '12 '
  @ prow()+2,1 SAY 'The code for proficiency in reading/writing is not co
 ENDIF
 IF .NOT. SCOD $ '12 '
  @ PROW()+2,1 SAY 'The code for proficiency in speaking is not correct :
 ENDIF
 IF .NOT. ECOD $ '123456 '
  @ PROW()+2,1 SAY 'The code for examination passed is not correct : '+EC
 ENDIF
 @ prow()+1,1 say repl('-',100)
*********************
 sele 3
 skip
ENDDO
@ prow()+1,1 say repl('*',100)
SET DEVI TO SCRE
CLEA
RETU
```

```
**********VAL5 PROGRAM**********
***FOR VALIDATION OF THE APPTCONF FILE
sele 3
use APPTCONF
clea
GO RENO
@ 10,10 SAY 'VALIDATING THE DATE OF APPOINTMENT/CONFIRMATION FILE'
set devi to prin
@ 1,40 SAY '****************************************'
@ PROW()+1,40 SAY '*    PERSONNEL INFORMATION SYSTEM    *'
@ PROW()+1,40 SAY '*            C  B  E  C              *'
@ PROW()+1,40 SAY '****************************************'
@ PROW()+2,40 SAY '      ERROR LISTING OF  BIO-DATA'
@ PROW()+1,55 SAY DTOC(DATE())
@ PROW()+2,10 SAY 'IN DATE OF APPOINTMENT/CONFIRMATION FILE  :'
@ PROW()+2,1 SAY REPL('*',100)
DO WHILE .NOT. EOF()
 @ PROW()+2,5 SAY 'Identification no. : '+IDCODE
 @ PROW(),70 SAY 'Record number : '+str(recno(),6)
 store SLCODE to SCOD
 STORE DTGOVT TO DGO
 STORE NDNAFT TO NAFT
 STORE DTAPPT TO DAP
 IF .NOT. SCOD $ '1234567'
  @ PROW()+2,1 SAY 'The scale code is not correct : '+SCOD
 endif
 YER = YEAR(DATE()) - YEAR(DGO)
 IF (YER > 47 .OR. DGO > DATE())
  @ PROW()+2,1 SAY 'The date of appointment/promotion is not correct : '+D
 ENDIF
 IF .NOT. NAFT $ '12 '
  @ prow()+2,1 SAY 'The code for forenoon/afternoon is not correct : '+NAF
 ENDIF
 IF .NOT. (DAP=CTOD('  /  /  '))
  YER = YEAR(DATE()) - YEAR(DAP)
  IF (YER > 47 .OR. DAP > DATE() .OR. DAP < DGO)
   @ PROW()+2,1 SAY 'The date of confirmation is not correct : '+DTOC(DAP
  ENDIF
 ENDIF
 @ prow()+1,1 say repl('-',100)
 ********************
 sele 3
 skip
ENDDO
@ prow()+1,1 say repl('*',100)
SET DEVI TO SCRE
CLEA
RETU
```

```
**********VAL6 PROGRAM**********
***FOR VALIDATING THE TRANCOUR FILE
sele 3
use TRANCOUR
clea
GO RENO
@ 10,10 SAY 'VALIDATING THE TRAINING COURSES (ATTENDED IN INDIA) FILE'
set devi to prin
@ 1,40 SAY '*************************************'
@ PROW()+1,40 SAY '*     PERSONNEL INFORMATION SYSTEM    *'
@ PROW()+1,40 SAY '*              C  B  E  C             *'
@ PROW()+1,40 SAY '*************************************'
@ PROW()+2,40 SAY '       ERROR LISTING OF  BIO-DATA'
@ PROW()+1,55 SAY DTOC(DATE())
@ PROW()+2,10 SAY 'IN TRAINING COURSES (ATTENDED IN INDIA) FILE  :'
@ PROW()+2,1 SAY REPL('*',100)
DO WHILE .NOT. EOF()
 @ PROW()+2,5 SAY 'Identification no. : '+IDCODE
 @ PROW(),70 SAY 'Record number : '+str(recno(),6)
 store NATTRN to NTRN
 STORE LEVCOR TO LCOR
 STORE TRYEAR TO TRYR
 SELE 2
 USE TRAIN INDE TRAIN
 SEEK NTRN
 IF EOF()
  @ PROW()+2,1 SAY 'The code for nature of training is not correct : '+NTR
 endif
 USE
 IF .NOT. LCOR $ '12'
  @ prow()+2,1 SAY 'The code for level of course is not correct : '+LCOR
 ENDIF
 DTE=VAL(RIGHT(DTOC(DATE()),2))
 YER = DTE - VAL(TRYR)
 IF (YER > 47 .OR. VAL(TRYR) > DTE .OR. VAL(TRYR) = 0)
  @ PROW()+2,1 SAY 'The year of training is not correct : '+TRYR
 ENDIF
 @ prow()+1,1 say repl('-',100)
*********************
 sele 3
 skip
ENDDO
@ prow()+1,1 say repl('*',100)
SET DEVI TO SCRE
CLEA
RETU
```

```
**********VAL7 PROGRAM**********
***FOR VALIDATION OF THE TRABROAD FILE
sele 3
use TRABROAD
clea
GO RENO
@ 10,10 SAY 'VALIDATING THE TRAINING COURSES (ATTENDED ABROAD) FILE'
set devi to prin
@ 1,40 SAY '****************************************'
@ PROW()+1,40 SAY '*    PERSONNEL INFORMATION SYSTEM    *'
@ PROW()+1,40 SAY '*            C  B  E  C              *'
@ PROW()+1,40 SAY '****************************************'
@ PROW()+2,40 SAY '      ERROR LISTING OF  BIO-DATA'
@ PROW()+1,55 SAY DTOC(DATE())
@ PROW()+2,10 SAY 'IN TRAINING COURSES (ATTENDED ABROAD) FILE  :'
@ PROW()+2,1 SAY REPL('*',100)
DO WHILE .NOT. EOF()
 @ PROW()+2,5 SAY 'Identification no. : '+IDCODE
 @ PROW(),70 SAY 'Record number : '+str(recno(),6)
 store NTRAIN to NTRN
 STORE LVLCOR TO LCOR
 STORE TRCNTY TO TCNT
 STORE TRGYER TO TRYR
 SELE 2
 USE ATRAIN INDE ATRAIN
 SEEK NTRN
 IF EOF()
  @ PROW()+2,1 SAY 'The code for nature of training is not correct : '+NTR
 endif
 IF .NOT. LCOR $ '12'
  @ prow()+2,1 SAY 'The code for level of course is not correct : '+LCOR
 ENDIF
 USE COUNTRY INDE COUNTRY
 SEEK TCNT
 IF EOF()
  @ PROW()+2,1 SAY 'The code for name of country is not correct : '+TCNT
 ENDIF
 USE
 DTE = VAL(RIGHT(DTOC(DATE()),2))
 YER = DTE - VAL(TRYR)
 IF (YER > 47 .OR. VAL(TRYR) > DTE .OR. VAL(TRYR) = 0)
  @ PROW()+2,1 SAY 'The year of training is not correct : '+TRYR
 ENDIF
 @ prow()+1,1 say repl('-',100)
**********
 sele 3
 skip
ENDDO
@ prow()+1,1 say repl('*',100)
SET DEVI TO SCRE
CLEA
RETU
```

```
**********VAL8 PROGRAM**********
***FOR VALIDATING THE PARTINTN FILE
sele 3
use PARTINTN
clea
GO RENO
@ 10,10 SAY 'VALIDATING THE PARTICIPATION IN CONFERENCES/etc. FILE'
set devi to prin
@ 1,40 SAY '****************************************'
@ PROW()+1,40 SAY '*    PERSONNEL INFORMATION SYSTEM     *'
@ PROW()+1,40 SAY '*            C  B  E  C               *'
@ PROW()+1,40 SAY '****************************************'
@ PROW()+2,40 SAY '      ERROR LISTING OF  BIO-DATA'
@ PROW()+1,55 SAY DTOC(DATE())
@ PROW()+2,10 SAY 'IN PARTICIPATION IN CONFERENCES/etc. FILE  :'
@ PROW()+2,1 SAY REPL('*',100)
DO WHILE .NOT. EOF()
 @ PROW()+2,5 SAY 'Identification no. : '+IDCODE
 @ PROW(),70 SAY 'Record number : '+str(recno(),6)
 store PARTPN to PARN
 STORE CNFYER TO CYER
 SELE 2
 USE PARTICIPATION INDE PARTICIPATION
 SEEK PARN
 IF EOF()
  @ PROW()+2,1 SAY 'The participation code is not correct : '+PARN
 endif
 USE
 DTE=VAL(RIGHT(DTOC(DATE()),2))
 YER = DTE - VAL(CYER)
 IF (YER > 47 .OR. VAL(CYER) > DTE .OR. VAL(CYER) = 0)
  @ PROW()+2,1 SAY 'The year of participation is not correct : '+CYER
 ENDIF
 @ prow()+1,1 say repl('-',100)
*********************
 sele 3
 skip
ENDDO
@ prow()+1,1 say repl('*',100)
SET DEVI TO SCRE
CLEA
RETU
```

```
**********VAL9 PROGRAM**********
***FOR VALIDATING THE REWDAWRD FILE
sele 3
use HISTSERV
clea
GO RENO
@ 10,10 SAY 'VALIDATING THE HISTORY OF SERVICE FILE'
set devi to prin
@ 1,40 SAY '****************************************'
@ PROW()+1,40 SAY '*    PERSONNEL INFORMATION SYSTEM     *'
@ PROW()+1,40 SAY '*              C  B  E  C             *'
@ PROW()+1,40 SAY '****************************************'
@ PROW()+2,40 SAY '      ERROR LISTING OF  BIO-DATA'
@ PROW()+1,55 SAY DTOC(DATE())
@ PROW()+2,10 SAY 'IN HISTORY OF SERVICE FILE  :'
@ PROW()+2,1 SAY REPL('*',100)
DO WHILE .NOT. EOF()
 @ PROW()+2,5 SAY 'Identification no. : '+IDCODE
 @ PROW(),70 SAY 'Record number : '+str(recno(),6)
 STORE SRPOST TO POST
 store SRCNTY to CNTY
 STORE SRDEPT TO DEPM
 STORE YRFROM TO YRFR
 STORE MTFROM TO MTFR
 STORE YEARTO TO YRTO
 STORE MOTHTO TO MTTO
 SELE 2
 USE DESIG INDE DESIG
 SEEK POST
 IF EOF()
  @PROW()+2,1 SAY 'The code for post is not correct : '+POST
 ENDIF
 USE
 IF .NOT. (CNTY=' ')
  SELE 2
  USE COUNTRY INDE COUNTRY
  SEEK CNTY
  IF EOF()
   @ PROW()+2,1 SAY 'The code for name of country is not correct : '+CNTY
  endif
 ENDIF
 SELE 2
 USE DEPT INDE DEPT
 SEEK DEPM
 IF EOF()
  @ PROW()+2,1 SAY 'The code for department is not correct : '+DEPM
 ENDIF
 USE
 DTE=RIGHT(DTOC(DATE()),2)
 YER = VAL(DTE) - VAL(YRFR)
 IF (YER > 47 .OR. VAL(YRFR) > VAL(DTE) .OR. VAL(YRFR) = 0)
  @ PROW()+2,1 SAY 'The year from given is not correct : '+YRFR
 ENDIF
 IF VAL(MTFR) > 12
  @ PROW()+2,1 SAY 'The month from given is not correct : '+MTFR
 ENDIF
 IF .NOT. (YRTO=' ')
  YER = VAL(DTE) - VAL(YRTO)
  IF (YER > 47 .OR. VAL(YRTO) > VAL(DTE))
   @ PROW()+2,1 SAY 'The year to given is not correct : '+YRTO
  ENDIF
  IF VAL(MTTO) > 12
   @ PROW()+2,1 SAY 'The month to given is not correct : '+MTTO
  ENDIF
 ENDIF
```

```
*********************
 sele 3
 skip
ENDDO
@ prow()+1,1 say repl('*',100)
SET DEVI TO SCRE
CLEA
RETU
```

```
**********************VALB2 PROGRAM**********************
***FOR THE VALIDATION OF THE ACADQUAL RECORDS
***A MODULE OF THE VAL1 PROGRAM
sele 3
use ACADQUAL inde ACADQUAL
go top
seek IDNO
if eof()
 @ prow()+3,10 say 'THERE IS NO ACADEMIC QUALIFICATION RECORD FOR THIS NAM
 return
endif
@ PROW()+3,10 SAY 'IN ACADEMIC QUALIFICATION FILE  :'
DO WHILE IDCODE=IDNO .AND. (.NOT. EOF())
 @ prow()+2,5 say 'Record number : '+str(recno(),6)
 store QUACOD to QCOD
 store QUAYER to QYER
 store QUADIV to QDIV
 store QUACOU to QCOU
 store QUASB1 to QSB1
 store QUASB2 to QSB2
 store QUASB3 to QSB3
 store QUASB4 to QSB4
 sele 2
 use qual inde qual
 seek QCOD
 IF EOF()
  @ prow()+2,1 SAY 'Code for Qualification is not correct : '+QCOD
 ENDIF
 USE
 DTE=VAL(RIGHT(DTOC(DATE()),2))
 YER=DTE - VAL(QYER)
 if (val(QYER)=0 .OR. VAL(QYER) > DTE .OR. YER > 47)
  @ prow()+2,1 say 'Year entry is not correct : '+QYER
 endif
 IF .NOT. QDIV $ '123'
  @ prow()+2,1 SAY 'The code for division is not correct : '+QDIV
 ENDIF
 IF .NOT. QCOU $ '12345679'
  @ prow()+2,1 SAY 'Course code is not correct : '+QCOU
 ENDIF
 sele 2
 QSB1=uppe(QSB1)
 USE SUBJECT INDE SUBJECT
 seek QSB1
 IF EOF()
  @ prow()+2,1 SAY 'Code for Subject1 is not correct : '+QSB1
 ENDIF
 IF .NOT. (QSB2=' ')
  go top
  QSB2=UPPE(QSB2)
  seek QSB2
  IF EOF()
   @ prow()+2,1 SAY 'Code for Subject2 is not correct : '+QSB2
  ENDIF
 ENDIF
 IF .NOT. (QSB3=' ')
  go top
  QSB3=UPPE(QSB3)
  seek QSB3
  IF EOF()
   @ prow()+2,1 SAY 'Code for Subject3 is not correct : '+QSB3
  ENDIF
 ENDIF
 IF .NOT. (QSB4=' ')
  go top
```

```
  seek OSD4
  IF EOF()
   @ prow()+2,1 SAY 'Code for Subject4 is not correct : '+OSD4
  ENDIF
 ENDIF
 USE
 @ prow()+1,1 say repl('-',100)
*********************
sele 3
skip
enddo
retu
```

```
**********************VALC3 PROGRAM**********************
***FOR THE VALIDATION OF THE EXTCRACT RECORDS
***A MODULE OF THE VAL1 PROGRAM
sele 3
use EXTCRACT INDE EXTCRACT
go top
seek IDNO
if eof()
 @ prow()+3,10 say 'THERE IS NO EXTRA CURRICULAR ACTIVITY RECORD FOR THIS
 return
endif
@ PROW()+3,10 SAY 'IN EXTRA CURRICULAR ACTIVITY FILE  :'
DO WHILE IDCODE=IDNO .AND. (.NOT. EOF())
 @ prow()+2,5 say 'Record number : '+str(recno(),6)
 store EXCODE to ECOD
 IF .NOT. ECOD $ '12345'
  @ prow()+2,1 SAY 'The code for name of extra curricular activity is not
 ENDIF
 @ prow()+1,1 say repl('-',100)
*********************
sele 3
skip
enddo
retu
```

```
**********************VALD4 PROGRAM**********************
***FOR VALIDATING THE LANGKNON RECORDS
***A MODULE OF THE VAL1 PROGRAM
sele 3
use LANGKNON INDE LANGKNON
go top
seek IDNO
if eof()
 @ prow()+3,10 say 'THERE IS NO LANGUAGES RECORD FOR THIS NAME'
 return
endif
@ PROW()+3,10 SAY 'IN LANGUAGES FILE  :'
DO WHILE IDCODE=IDNO .AND. (.NOT. EOF())
 @ prow()+2,5 say 'Record number : '+str(recno(),6)
 store LGCODE to LCOD
 STORE RDCODE TO RCOD
 STORE SKCODE TO SCOD
 STORE EMCODE TO ECOD
 SELE 2
 USE LANGUAGE INDE LANGUAGE
 SEEK LCOD
 IF EOF()
  @ PROW()+2,1 SAY 'The code for language is not correct : '+LCOD
 endif
 USE
 IF .NOT. RCOD $ '12 '
  @ prow()+2,1 SAY 'The code for proficiency in reading/writing is not cor
 ENDIF
 IF .NOT. SCOD $ '12 '
  @ PROW()+2,1 SAY 'The code for proficiency in speaking is not correct :
 ENDIF
 IF .NOT. ECOD $ '123456 '
  @ PROW()+2,1 SAY 'The code for examination passed is not correct : '+ECO
 ENDIF
 @ prow()+1,1 say repl('-',100)
**********************
sele 3
skip
enddo
retu
```

```
---------- PROGRAM NUMBER :  89 ---------- FOR CBEC

**********VALES PROGRAM**********
***FOR THE VALIDATION OF THE APPTCONF RECORDS
***A MODULE OF THE VAL1 PROGRAM
sele 3
use APPTCONF INDE APPTCONF
go top
seek IDNO
if eof()
 @ prow()+3,10 say 'THERE IS NO DATE OF APPOINTMENT/CONFIRMATION RECORD FO
 return
endif
@ PROW()+3,10 SAY 'IN DATE OF APPOINTMENT/CONFIRMATION FILE  :'
DO WHILE IDCODE=IDNO .AND. (.NOT. EOF())
 @ prow()+2,5 say 'Record number : '+str(recno(),6)
 store SLCODE to SCOD
 STORE DTGOVT TO DGO
 STORE NDNAFT TO NAFT
 STORE DTAPPT TO DAP
 IF .NOT. SCOD $ '1234567'
  @ PROW()+2,1 SAY 'The scale code is not correct : '+SCOD
 endif
 YER = YEAR(DATE()) - YEAR(DGO)
 IF (YER > 47 .OR. DGO > DATE())
  @ PROW()+2,1 SAY 'The date of appointment/promotion is not correct : '+D
 ENDIF
 IF .NOT. NAFT $ '12 '
  @ prow()+2,1 SAY 'The code for forenoon/afternoon is not correct : '+NAF
 ENDIF
 IF .NOT. (DAP=CTOD('  /  /  '))
  YER = YEAR(DATE()) - YEAR(DAP)
  IF (YER > 47 .OR. DAP > DATE() .OR. DAP < DGO)
   @ PROW()+2,1 SAY 'The date of confirmation is not correct : '+DTOC(DAP)
  ENDIF
 ENDIF
 @ prow()+1,1 say repl('-',100)
**********
 sele 3
 skip
enddo
retu
```

```
**********************VALF6 PROGRAM**********************
***FOR VALIDATING THE TRANCOUR RECORDS
***A MODULE OF THE VAL1 PROGRAM
sele 3
use TRANCOUR INDE TRANCOUR,TRANITRN
go top
seek IDNO
if eof()
 @ prow()+3,10 say 'THERE IS NO TRAINING COURSE (ATTENDED IN INDIA) RECORD
 return
endif
@ PROW()+3,10 SAY 'IN TRAINING COURSES (ATTENDED IN INDIA) FILE  :'
DO WHILE IDCODE=IDNO .AND. (.NOT. EOF())
 @ prow()+2,5 say 'Record number : '+str(recno(),6)
 store NATTRN to NTRN
 STORE LEVCOR TO LCOR
 STORE TRYEAR TO TRYR
 SELE 2
 USE TRAIN INDE TRAIN
 SEEK NTRN
 IF EOF()
  @ PROW()+2,1 SAY 'The code for nature of training is not correct : '+NTRN
 endif
 USE
 IF .NOT. LCOR $ '12'
  @ prow()+2,1 SAY 'The code for level of course is not correct : '+LCOR
 ENDIF
 DTE=VAL(RIGHT(DTOC(DATE()),2))
 YER = DTE - VAL(TRYR)
 IF (YER > 47 .OR. VAL(TRYR) > DTE .OR. VAL(TRYR) = 0)
  @ PROW()+2,1 SAY 'The year of training is not correct : '+TRYR
 ENDIF
 @ prow()+1,1 say repl('-',100)
 *********************
 sele 3
 skip
enddo
retu
```

```
**********************VALG7 PROGRAM**********************
***FOR VALIDATING THE TRABROAD RECORDS
***A MODULE OF THE VAL1 PROGRAM
sele 3
use TRABROAD INDE TRABROAD,TRANATRN
go top
seek IDNO
if eof()
 @ prow()+3,10 say 'THERE IS NO TRAINING COURSE (ATTENDED ABROAD) RECORD F
 return
endif
@ PROW()+3,10 SAY 'IN TRAINING COURSES (ATTENDED ABROAD) FILE  :'
DO WHILE IDCODE=IDNO .AND. (.NOT. EOF())
 @ prow()+2,5 say 'Record number : '+str(recno(),6)
 store NTRAIN to NTRN
 STORE LVLCOR TO LCOR
 STORE TRCNTY TO TCNT
 STORE TRGYER TO TRYR
 SELE 2
 USE ATRAIN INDE ATRAIN
 SEEK NTRN
 IF EOF()
  @ PROW()+2,1 SAY 'The code for nature of training is not correct : '+NTR
 endif
 IF .NOT. LCOR $ '12'
  @ prow()+2,1 SAY 'The code for level of course is not correct : '+LCOR
 ENDIF
 USE COUNTRY INDE COUNTRY
 SEEK TCNT
 IF EOF()
  @ PROW()+2,1 SAY 'The code for name of country is not correct : '+TCNT
 ENDIF
 USE
 DTE=VAL(RIGHT(DTOC(DATE()),2))
 YER = DTE - VAL(TRYR)
 IF (YER > 47 .OR. VAL(TRYR) > DTE .OR. VAL(TRYR) = 0)
  @ PROW()+2,1 SAY 'The year of training is not correct : '+TRYR
 ENDIF
 @ prow()+1,1 say repl('-',100)
 ********************
 sele 3
 skip
enddo
retu
```

```
**********************VAL#8 PROGRAM**********************
***FOR VALIDATING THE PARTINTN RECORD
***A MODULE OF THE VAL1 PROGRAM
sele 3
use PARTINTN INDE PARTINTN
go top
seek IDNO
if eof()
 @ prow()+3,10 say 'THERE IS NO PARTICIPATION IN CONFERENCES/etc. RECORD FO
 return
endif
@ PROW()+3,10 SAY 'IN PARTICIPATION IN CONFERENCES/etc. FILE  :'
DO WHILE IDCODE=IDNO .AND. (.NOT. EOF())
 @ prow()+2,5 say 'Record number : '+str(recno(),6)
 store PARTPN to PARN
 STORE CNFYER TO CYER
 SELE 2
 USE PARTICIPATION INDE PARTICIPATION
 SEEK PARN
 IF EOF()
  @ PROW()+2,1 SAY 'The participation code is not correct : '+PARN
 endif
 USE
 DTE=VAL(RIGHT(DTOC(DATE()),2))
 YER = DTE - VAL(CYER)
 IF (YER > 47 .OR. VAL(CYER) > DTE .OR. VAL(CYER) = 0)
  @ PROW()+2,1 SAY 'The year of participation is not correct : '+CYER
 ENDIF
 @ prow()+1,1 say repl('-',100)
 ********************
 sele 3
 skip
enddo
retu
```

```
**********************VALI9 PROGRAM**********************
***FOR VALIDATING THE RECORDS OF HISTSERV FILE
***A MODULE OF THE VAL1 PROGRAM
sele 3
use HISTSERV INDE HISTSERV
go top
seek IDNO
if eof()
 @ prow()+3,10 say 'THERE IS NO HISTORY OF SERVICE RECORD FOR THIS NAME'
 return
endif
@ PROW()+3,10 SAY 'IN HISTORY OF SERVICE FILE  :'
DO WHILE IDCODE=IDNO .AND. (.NOT. EOF())
 @ prow()+2,5 say 'Record number : '+str(recno(),6)
 STORE SRPOST TO POST
 STORE SRCNTY to CNTY
 STORE SRDEPT TO DEPM
 STORE YRFROM TO YRFR
 STORE MTFROM TO MTFR
 STORE YEARTO TO YRTO
 STORE MOTHTO TO MTTO
 SELE 2
 USE DESIG INDE DESIG
 SEEK POST
 IF EOF()
  @PROW()+2,1 SAY 'The code for post is not correct : '+POST
 ENDIF
 USE
 IF .NOT. (CNTY=' ')
  SELE 2
  USE COUNTRY INDE COUNTRY
  SEEK CNTY
  IF EOF()
   @ PROW()+2,1 SAY 'The code for name of country is not correct : '+CNTY
  endif
 ENDIF
 sele 2
 USE DEPT INDE DEPT
 SEEK DEPM
 IF EOF()
  @ PROW()+2,1 SAY 'The code for department is not correct : '+DEPM
 ENDIF
 USE
 DTE=VAL(RIGHT(DTOC(DATE()),2))
 YER = DTE - VAL(YRFR)
 IF (YER > 47 .OR. VAL(YRFR) > DTE .OR. VAL(YRFR) = 0)
  @ PROW()+2,1 SAY 'The year from given is not correct : '+YRFR
 ENDIF
 IF VAL(MTFR) > 12
  @ PROW()+2,1 SAY 'The month from given is not correct : '+MTFR
 ENDIF
 IF .NOT. (YRTO=' ')
  YER = DTE - VAL(YRTO)
  IF (YER > 47 .OR. VAL(YRTO) > DTE)
   @ PROW()+2,1 SAY 'The year to given is not correct : '+YRTO
  ENDIF
  IF VAL(MTTO) > 12
   @ PROW()+2,1 SAY 'The month to given is not correct : '+MTTO
  ENDIF
 ENDIF
 @ prow()+1,1 say repl('-',100)
 ********************
 sele 3
 skip
enddo
```

```
**********************VALIDATE PROGRAM**********************
***FOR THE PURPOSE OF VALIDATION
****OUTPUT IS DIRECTED TO THE PRINTER
set talk off
SET DATE BRIT
clear
close all
run date
clea
@ 10,10 SAY 'PLEASE CONNECT THE PRINTER'
WAIT
CLEA
SELE 6
USE VALIDD
RENO=RECN
FNAME=FNAM
USE
DO CASE
  CASE FNAME=1
   DO VAL1
  CASE FNAME=2
   DO VAL2
  CASE FNAME=3
   DO VAL3
  CASE FNAME=4
   DO VAL4
  CASE FNAME=5
   DO VAL5
  CASE FNAME=6
   DO VAL6
  CASE FNAME=7
   DO VAL7
  CASE FNAME=8
   DO VAL8
  CASE FNAME=9
   DO VAL9
  CASE FNAME=10
   DO VAL10
  CASE FNAME=11
   DO VAL11
  CASE FNAME=12
   DO VAL12
 ENDCASE
 SELE 6
 USE VALIDD
 REPL FLGG WITH .F.
 CLEA
 CLOSE ALL
 RETU
```