

```

IDENTIFICATION DIVISION.
PROGRAM-ID. FPP001.
AUTHOR. ANGELO.
*****
* MANUTENCAO DO CADASTRO DE CLIENTES *
*****
*-----
ENVIRONMENT DIVISION.
CONFIGURATION SECTION.
SPECIAL-NAMES.

                DECIMAL-POINT IS COMMA.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT CLIENTE ASSIGN TO DISK
                ORGANIZATION IS INDEXED
                ACCESS MODE IS DYNAMIC
                RECORD KEY IS CODIGO
                FILE STATUS IS ST-ERRO
                ALTERNATE RECORD KEY IS CHAVE2 = NOME CODIGO
                                                WITH DUPLICATES.
*
*-----
DATA DIVISION.
FILE SECTION.
FD CLIENTE
    LABEL RECORD IS STANDARD
    VALUE OF FILE-ID IS "CLIENTE.DAT".
01 REGCLI.
    03 CHAVE1.
        05 CODIGO                PIC 9(05).
    03 NOME                PIC X(30).
    03 ENDERECO            PIC X(30).
    03 TELEFONE            PIC 9(12).
*
*-----
WORKING-STORAGE SECTION.
77 W-SEL                PIC 9(01) VALUE ZEROS.
77 W-CONT                PIC 9(06) VALUE ZEROS.
77 W-OPCAO                PIC X(01) VALUE SPACES.
77 ST-ERRO                PIC X(02) VALUE "00".
77 W-ACT                PIC 9(02) VALUE ZEROS.
77 MENS                PIC X(50) VALUE SPACES.
77 LIMPA                PIC X(50) VALUE SPACES.
*-----
PROCEDURE DIVISION.
INICIO.
*
INC-OP0.
    OPEN I-O CLIENTE
    IF ST-ERRO NOT = "00"
        IF ST-ERRO = "30"
            OPEN OUTPUT CLIENTE
            CLOSE CLIENTE
            MOVE "*** ARQUIVO CLIENTE SENDO CRIADO ***" TO MENS
            PERFORM ROT-MENS THRU ROT-MENS-FIM
            GO TO INC-OP0
        ELSE
            MOVE "ERRO NA ABERTURA DO ARQUIVO CLIENTE" TO MENS

```

```

        PERFORM ROT-MENS THRU ROT-MENS-FIM
        GO TO ROT-FIM
    ELSE
        NEXT SENTENCE.
INC-001.
    MOVE ZEROS TO CODIGO TELEFONE
    MOVE SPACES TO NOME ENDERECO.
    DISPLAY (01, 01) ERASE
    DISPLAY (01, 20) "CADASTRO DE CLIENTES"
    DISPLAY (04, 01) "CODIGO      : "
    DISPLAY (05, 01) "NOME        : "
    DISPLAY (06, 01) "ENDERECO   : "
    DISPLAY (07, 01) "TELEFONE   : " .
INC-002.
    ACCEPT (04, 12) CODIGO
    ACCEPT W-ACT FROM ESCAPE KEY
    IF W-ACT = 02
        CLOSE CLIENTE
        GO TO ROT-FIM.
    IF CODIGO = 0
        MOVE "*** CLIENTE INVALIDO ***" TO MENS
        PERFORM ROT-MENS THRU ROT-MENS-FIM
        GO TO INC-001.
LER-CLIENTE01.
    MOVE 0 TO W-SEL
    READ CLIENTE
    IF ST-ERRO NOT = "23"
        IF ST-ERRO = "00"
            DISPLAY (05, 12) NOME
            DISPLAY (06, 12) ENDERECO
            DISPLAY (07, 12) TELEFONE
            MOVE "*** CLIENTE JA CADASTRADO ***" TO MENS
            PERFORM ROT-MENS THRU ROT-MENS-FIM
            MOVE 1 TO W-SEL
            GO TO ACE-001
        ELSE
            MOVE "ERRO NA LEITURA ARQUIVO CLIENTE" TO MENS
            PERFORM ROT-MENS THRU ROT-MENS-FIM
            GO TO ROT-FIM
    ELSE
        NEXT SENTENCE.
INC-003.
    ACCEPT (05, 12) NOME
    ACCEPT W-ACT FROM ESCAPE KEY
    IF W-ACT = 02 GO TO INC-002.
INC-004.
    ACCEPT (06, 12) ENDERECO
    ACCEPT W-ACT FROM ESCAPE KEY
    IF W-ACT = 02 GO TO INC-003.
INC-005.
    ACCEPT (07, 12) TELEFONE
    ACCEPT W-ACT FROM ESCAPE KEY
    IF W-ACT = 02 GO TO INC-004.
*
    IF W-SEL = 1
        GO TO ALT-OPC.
INC-OPC.
    MOVE "S" TO W-OPCAO

```

```

        DISPLAY (23, 40) "DADOS OK (S/N) : ".
        ACCEPT (23, 57) W-OPCAO WITH UPDATE
        ACCEPT W-ACT FROM ESCAPE KEY
        IF W-ACT = 02 GO TO INC-005.
        IF W-OPCAO = "N" OR "n"
            MOVE "*** DADOS RECUSADOS PELO OPERADOR ***" TO MENS
            PERFORM ROT-MENS THRU ROT-MENS-FIM
            GO TO INC-001.
        IF W-OPCAO NOT = "S" AND "s"
            MOVE "*** DIGITE APENAS S=SIM e N=NAO ***" TO MENS
            PERFORM ROT-MENS THRU ROT-MENS-FIM
            GO TO INC-OPC.
INC-WR1.
        WRITE REGCLI
        IF ST-ERRO = "00" OR "02"
            MOVE "*** DADOS GRAVADOS *** " TO MENS
            PERFORM ROT-MENS THRU ROT-MENS-FIM
            GO TO INC-001.
        IF ST-ERRO = "22"
            MOVE "*** CLIENTE JA EXISTE ***" TO MENS
            PERFORM ROT-MENS THRU ROT-MENS-FIM
            GO TO INC-001
        ELSE
            MOVE "ERRO NA GRAVACAO DO ARQUIVO DE CLIENTE"
                TO MENS
            PERFORM ROT-MENS THRU ROT-MENS-FIM
            GO TO ROT-FIM.
*
*****
* ROTINA DE CONSULTA/ALTERACAO/EXCLUSAO *
*****
*
ACE-001.
        DISPLAY (23, 12)
            "F1=NOVO REGISTRO    F2=ALTERAR    F3=EXCLUIR"
        ACCEPT (23, 55) W-OPCAO
        ACCEPT W-ACT FROM ESCAPE KEY
        IF W-ACT NOT = 02 AND W-ACT NOT = 03 AND W-ACT NOT = 04
            GO TO ACE-001.
        MOVE SPACES TO MENS
        DISPLAY (23, 12) MENS
        IF W-ACT = 02
            MOVE 02 TO W-SEL
            GO TO INC-001.
        IF W-ACT = 03
            GO TO INC-003.
*
EXC-OPC.
        DISPLAY (23, 40) "EXCLUIR    (S/N) : ".
        ACCEPT (23, 57) W-OPCAO
        IF W-OPCAO = "N" OR "n"
            MOVE "*** REGISTRO NAO EXCLUIDO ***" TO MENS
            PERFORM ROT-MENS THRU ROT-MENS-FIM
            GO TO INC-001.
        IF W-OPCAO NOT = "S" AND "s"
            MOVE "*** DIGITE APENAS S=SIM e N=NAO ***" TO MENS
            PERFORM ROT-MENS THRU ROT-MENS-FIM
            GO TO EXC-OPC.

```

```

EXC-DL1.
    DELETE CLIENTE RECORD
    IF ST-ERRO = "00"
        MOVE "*** REGISTRO EXCLUIDO ***" TO MENS
        PERFORM ROT-MENS THRU ROT-MENS-FIM
        GO TO INC-001.
    MOVE "ERRO NA EXCLUSAO DO REGISTRO " TO MENS
    PERFORM ROT-MENS THRU ROT-MENS-FIM
    GO TO ROT-FIM.
*
ALT-OPC.
    DISPLAY (23, 40) "ALTERAR (S/N) : ".
    ACCEPT (23, 57) W-OPCAO
    ACCEPT W-ACT FROM ESCAPE KEY
    IF W-ACT = 02 GO TO INC-005.
    IF W-OPCAO = "N" OR "n"
        MOVE "*** INFORMACOES NAO ALTERADAS *** " TO MENS
        PERFORM ROT-MENS THRU ROT-MENS-FIM
        GO TO INC-001.
    IF W-OPCAO NOT = "S" AND "s"
        MOVE "*** DIGITE APENAS S=SIM e N=NAO ***" TO MENS
        PERFORM ROT-MENS THRU ROT-MENS-FIM
        GO TO ALT-OPC.
ALT-RW1.
    REWRITE REGCLI
    IF ST-ERRO = "00" OR "02"
        MOVE "*** REGISTRO ALTERADO ***" TO MENS
        PERFORM ROT-MENS THRU ROT-MENS-FIM
        GO TO INC-001.
    MOVE "ERRO NA EXCLUSAO DO REGISTRO CLIENTE" TO MENS
    PERFORM ROT-MENS THRU ROT-MENS-FIM
    GO TO ROT-FIM.
*
*****
* ROTINA DE FIM *
*****
*
ROT-FIM.
    DISPLAY (01, 01) ERASE
    EXIT PROGRAM.
ROT-FIMP.
    EXIT PROGRAM.

ROT-FIMS.
    STOP RUN.
*
*****
* ROTINA DE MENSAGEM *
*****
*
ROT-MENS.
    MOVE ZEROS TO W-CONT.
ROT-MENS1.
    DISPLAY (23, 12) MENS.
ROT-MENS2.
    ADD 1 TO W-CONT
    IF W-CONT < 30000
        GO TO ROT-MENS2

```

```
        ELSE
            DISPLAY (23, 12) LIMPA.
ROT-MENS-FIM.
    EXIT.
FIM-ROT-TEMPO.□□
```