

list p=16f877A , r=dec

include <p16f877A.inc>

__CONFIG H'3F39'

org 0x00

BANKSEL 20H;

RESULTAT EQU 20H

ANCIEN EQU 21H

CBLOCK 0x70

N0, N1, N2, N3, N4, N5, N6, N7, N8, N9, CL, ADD, SOUS, MUL,
DIV, EGG
ENDC

MOVLW 0D7H;

MOVWF N0;

MOVLW 0EBH;

MOVWF N1;

MOVLW 0DBH;

MOVWF N2;

MOVLW 0BBH;

MOVWF N3;

MOVLW 0EDH;

MOVWF N4;

MOVLW 0DDH;

MOVWF N5;

MOVLW 0BDH;

MOVWF N6;

MOVLW 0EEH;

MOVWF N7;

MOVLW 0DEH;

MOVWF N8;

MOVLW 0BEH;

MOVWF N9;

MOVLW 0E7H;

MOVWF CL;

MOVLW 077H;

MOVWF ADD;

MOVLW 07BH;

MOVWF SOUS;

MOVLW 07DH;

MOVWF MUL;

MOVLW 07EH;

MOVWF DIV;

MOVLW 0B7H;

MOVWF EGG;

BANKSEL TRISE;

BCF TRISE,PSPMODE;

BANKSEL TRISD;

MOVLW 0F0H;

```

MOVWF TRISD;
MOVLW 00H;
MOVWF TRISB;
BANKSEL PORTB;
MOVLW 00H;
MOVWF PORTB;
MOVWF ANCIEN;

```

DEBUT

```

BANKSEL PORTD;
MOVLW 0FEH;
MOVWF PORTD;
MOVE PORTD,W;
MOVWF RESULTAT;
CALL SEE;
MOVWF ANCIEN;
MOVWF PORTB;
BANKSEL PORTD;
MOVLW 0DH;
MOVWF PORTD;
MOVE PORTD,W;
MOVWF RESULTAT;
CALL SEE;
MOVWF ANCIEN;
MOVWF PORTB;
BANKSEL PORTD;
MOVLW 0BH;
MOVWF PORTD;
MOVE PORTD,W;
MOVWF RESULTAT;
CALL SEE;
MOVWF ANCIEN;
MOVWF PORTB;
BANKSEL PORTD;
MOVLW 07H;
MOVWF PORTD;
MOVE PORTD,W;
MOVWF RESULTAT;
CALL SEE;
MOVWF ANCIEN;
MOVWF PORTB;

```

GOTO DEBUT

SEE

```

MOVE RESULTAT,W;
SUBWF N0,W;
BTFSS STATUS,Z;
GOTO F1;
MOVLW 00H;
RETURN;

```

```

F1 MOVE RESULTAT,W;
SUBWF N1,W;

```

```

    BTFSS STATUS,Z;
    GOTO F2;
    MOVLW 01H;
    RETURN;
F2  MOVF RESULTAT,W;
    SUBWF N2,W;
    BTFSS STATUS,Z;
    GOTO F33;
    MOVLW 02H;
    RETURN;
F33 MOVF RESULTAT,W;
    SUBWF N3,W;
    BTFSS STATUS,Z;
    GOTO F3;
    MOVLW 03H;
    RETURN;
F3  MOVF RESULTAT,W;
    SUBWF N4,W;
    BTFSS STATUS,Z;
    GOTO F4;
    MOVLW 04H;
    RETURN;
F4  MOVF RESULTAT,W;
    SUBWF N5,W;
    BTFSS STATUS,Z;
    GOTO F5;
    MOVLW 05H;
    RETURN;
F5  MOVF RESULTAT,W;
    SUBWF N6,W;
    BTFSS STATUS,Z;
    GOTO F6;
    MOVLW 06H;
    RETURN;
F6  MOVF RESULTAT,W;
    SUBWF N7,W;
    BTFSS STATUS,Z;
    GOTO F7;
    MOVLW 07H;
    RETURN;
F7  MOVF RESULTAT,W;
    SUBWF N8,W;
    BTFSS STATUS,Z;
    GOTO F8;
    MOVLW 08H;
    RETURN;
F8  MOVF RESULTAT,W;
    SUBWF N9,W;
    BTFSS STATUS,Z;
    GOTO F9;
    MOVLW 09H;
    RETURN;
F9  MOVF RESULTAT,W;

```

```

    SUBWF CL,W;
    BTFSS STATUS,Z;
    GOTO F10;
    MOVLW 0AH;
    RETURN;
F10  MOVF RESULTAT,W;
    SUBWF ADD,W;
    BTFSS STATUS,Z;
    GOTO F11;
    MOVLW 0BH;
    RETURN;
F11  MOVF RESULTAT,W;
    SUBWF SOUS,W;
    BTFSS STATUS,Z;
    GOTO F12;
    MOVLW 0CH;
    RETURN;
F12  MOVF RESULTAT,W;
    SUBWF MUL,W;
    BTFSS STATUS,Z;
    GOTO F13;
    MOVLW 0DH;
    RETURN;
F13  MOVF RESULTAT,W;
    SUBWF DIV,W;
    BTFSS STATUS,Z;
    GOTO F14;
    MOVLW 0EH;
    RETURN;
F14  MOVF RESULTAT,W;
    SUBWF EGG,W;
    BTFSS STATUS,Z;
    GOTO F15;
    MOVLW 0FH;
    RETURN;
F15
    BANKSEL ANCIEN;
    MOVF ANCIEN,W;
    RETURN;

END

```