```
; PicBasic Pro Compiler 2.46, www.elec4u.ir
PM_USED           EQU 1

    INCLUDE "16F876.INC"


; Define statements.
#define     CODE_SIZE           8
#define     OSC       20   ;Kristal deˊeri 20 MHz

RAM_START               EQU 00020h
RAM_END                 EQU 001EFh
RAM_BANKS               EQU 00004h
BANK0_START             EQU 00020h
BANK0_END               EQU 0007Fh
BANK1_START             EQU 000A0h
BANK1_END               EQU 000EFh
BANK2_START             EQU 00110h
BANK2_END               EQU 0016Fh
BANK3_START             EQU 00190h
BANK3_END               EQU 001EFh
EEPROM_START            EQU 02100h
EEPROM_END              EQU 021FFh

R0                      EQU RAM_START + 000h
R1                      EQU RAM_START + 002h
R2                      EQU RAM_START + 004h
R3                      EQU RAM_START + 006h
R4                      EQU RAM_START + 008h
R5                      EQU RAM_START + 00Ah
R6                      EQU RAM_START + 00Ch
R7                      EQU RAM_START + 00Eh
R8                      EQU RAM_START + 010h
FLAGS                   EQU RAM_START + 012h
GOP                     EQU RAM_START + 013h
RM1                     EQU RAM_START + 014h
RM2                     EQU RAM_START + 015h
RR1                     EQU RAM_START + 016h
RR2                     EQU RAM_START + 017h
_SAYI                   EQU RAM_START + 018h
_A                      EQU RAM_START + 01Ah
_C                      EQU RAM_START + 01Bh
_DEGER                  EQU RAM_START + 01Ch
_SAY1                   EQU RAM_START + 01Dh
_SAY2                   EQU RAM_START + 01Eh
_SAY3                   EQU RAM_START + 01Fh
_X                      EQU RAM_START + 020h
_Y                      EQU RAM_START + 021h
_PORTL                  EQU   PORTB
_PORTH                  EQU   PORTC
_TRISL                  EQU   TRISB
_TRISH                  EQU   TRISC
#define _CIKIS              _PORTC_6
#define _GIRIS              _PORTC_7
#define _ARTTIR            _PORTA_0
#define _AZALT             _PORTA_1
```

```
#define _RESET                   _PORTA_2
#define _SEC1                    _PORTC_0
#define _SEC2                    _PORTC_1
#define _SEC3                    _PORTC_2
#define _SEC4                    _PORTC_3
#define _PORTC_6                 PORTC, 006h
#define _PORTC_7                 PORTC, 007h
#define _PORTA_0                 PORTA, 000h
#define _PORTA_1                 PORTA, 001h
#define _PORTA_2                 PORTA, 002h
#define _PORTC_0                 PORTC, 000h
#define _PORTC_1                 PORTC, 001h
#define _PORTC_2                 PORTC, 002h
#define _PORTC_3                 PORTC, 003h


; Constants.
_SURE1                   EQU 00001h
_SURE3                   EQU 000C8h
    INCLUDE "VEZNE-2.MAC"
    INCLUDE "PBPPIC14.LIB"

    MOVE?CB 03Fh, TRISA
    MOVE?CB 000h, TRISB
    MOVE?CB 080h, TRISC

    ASM?
 DEVICE pic16F876

    ENDASM?


    ASM?
 DEVICE pic16F876, PWRT_ON

    ENDASM?


    ASM?
 DEVICE pic16F876, WDT_ON

    ENDASM?


    ASM?
 DEVICE pic16F876, PROTECT_OFF

    ENDASM?


    ASM?
 DEVICE pic16F876, XT_OSC

    ENDASM?

    MOVE?CB 007h, ADCON1
    CLEAR?
    MOVE?CB 000h, PORTB
```

```
        MOVE?CB 000h, PORTC


        LABEL?L _DONDUR
        ADD?BCB _C, 001h, _C
        CMPNE?BCL   _C, 032h, L00002
        MOVE?CB 000h, _C
        GOSUB?L _YOLLA
        LABEL?L L00002
        CMPNE?TCL   _ARTTIR, 000h, L00004
        ADD?WCW _SAYI, 001h, _SAYI
        PAUSE?C _SURE3
        LABEL?L L00004
        CMPNE?TCL   _AZALT, 000h, L00006
        CMPNE?WCL   _SAYI, 000h, L00008
        GOTO?L  _DONDUR
        LABEL?L L00008
        SUB?WCW _SAYI, 001h, _SAYI
        PAUSE?C _SURE3
        LABEL?L L00006
        CMPNE?TCL   _RESET, 000h, L00010
        MOVE?CW 000h, _SAYI
        LABEL?L L00010
        GOSUB?L _HESAPLA
        MOVE?BB _SAY1, _Y
        GOSUB?L _GONDER
        MOVE?BB _DEGER, PORTB
        MOVE?CT 001h, _SEC1
        MOVE?CT 001h, _SEC2
        MOVE?CT 001h, _SEC3
        MOVE?CT 000h, _SEC4
        PAUSE?C _SURE1
        MOVE?CT 001h, _SEC4
        MOVE?BB _SAY2, _Y
        GOSUB?L _GONDER
        MOVE?BB _DEGER, PORTB
        MOVE?CT 001h, _SEC1
        MOVE?CT 001h, _SEC2
        MOVE?CT 000h, _SEC3
        MOVE?CT 001h, _SEC4
        PAUSE?C _SURE1
        MOVE?CT 001h, _SEC3
        MOVE?BB _SAY3, _Y
        GOSUB?L _GONDER
        MOVE?BB _DEGER, PORTB
        MOVE?CT 001h, _SEC1
        MOVE?CT 000h, _SEC2
        MOVE?CT 001h, _SEC3
        MOVE?CT 001h, _SEC4
        PAUSE?C _SURE1
        MOVE?CT 001h, _SEC2
        GOTO?L  _DONDUR


        LABEL?L _GONDER
        LOOKUP?BCLB _Y, 00Ah, L00001, _DEGER
        LURET?C 03Fh
        LURET?C 006h
        LURET?C 05Bh
```

```
        LURET?C  04Fh
        LURET?C  066h
        LURET?C  06Dh
        LURET?C  07Dh
        LURET?C  007h
        LURET?C  0FFh
        LURET?C  06Fh


        LABEL?L  L00001
        RETURN?


        LABEL?L  _HESAPLA
        MOD?WCB  _SAYI, 00Ah, _SAY1
        MOD?WCB  _SAYI, 064h, _A
        DIV?BCB  _A, 00Ah, _SAY2
        DIV?WCB  _SAYI, 064h, _SAY3
        RETURN?


        LABEL?L  _YOLLA
        SEROUT2DPIN?T   _CIKIS
        SEROUT2MODE?C   0018Ch
        SEROUT2PACE?C   000h
        SEROUT2?C  056h
        SEROUT2?C  045h
        SEROUT2?C  05Ah
        SEROUT2?C  032h
        SEROUT2?W  _SAYI
        RETURN?


        END
```