

```

; 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 de'eri 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-1.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 031h
SEROUT2?W _SAYI
RETURN?
```

```
END
```