

```

; PicBasic Pro Compiler 2.46, www.elec4u.ir (c) 1998, 2005 microEngineering Labs, Inc. All
Rights Reserved.

PM_USED           EQU 1

INCLUDE "16F877.INC"

; Define statements.

#define      CODE_SIZE          8
#define      OSC      20 ;Kristal 20 MHz www.elec4u.ir

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
_A                 EQU RAM_START + 018h
_DEGER             EQU RAM_START + 019h
_SAY1               EQU RAM_START + 01Ah
_SAY2               EQU RAM_START + 01Bh
_SAY3               EQU RAM_START + 01Ch
_SAYI               EQU RAM_START + 01Dh
_VEZNE              EQU RAM_START + 01Eh
_X                  EQU RAM_START + 01Fh
_Y                  EQU RAM_START + 020h
_PORTL              EQU PORTB
_PORTH              EQU PORTC
_TRISL              EQU TRISB
_TRISH              EQU TRISC
#define _GIRIS1          _PORTD_0
#define _GIRIS2          _PORTD_1
#define _GIRIS3          _PORTD_2

```

```
#define _SEC1           _PORTC_0
#define _SEC2           _PORTC_1
#define _SEC3           _PORTC_2
#define _SEC4           _PORTC_3
#define _SEC5           _PORTC_4
#define _SEC6           _PORTC_5
#define _PORTD_0         PORTD, 000h
#define _PORTD_1         PORTD, 001h
#define _PORTD_2         PORTD, 002h
#define _PORTC_0         PORTC, 000h
#define _PORTC_1         PORTC, 001h
#define _PORTC_2         PORTC, 002h
#define _PORTC_3         PORTC, 003h
#define _PORTC_4         PORTC, 004h
#define _PORTC_5         PORTC, 005h
```

; Constants.

```
_SURE1           EQU 00002h
_SURE2           EQU 00003h
```

```
INCLUDE "ANA_CP~1.MAC"
```

```
INCLUDE "PBPPIC14.LIB"
```

```
MOVE?CB 000h, TRISB
MOVE?CB 000h, TRISC
MOVE?CB 007h, TRISD
```

ASM?

```
DEVICE pic16F877
```

ENDASM?

ASM?

```
DEVICE pic16F877, PWRT_ON
```

ENDASM?

ASM?

```
DEVICE pic16F877, WDT_ON
```

ENDASM?

ASM?

```
DEVICE pic16F877, PROTECT_OFF ; kod korumas yok
```

ENDASM?

ASM?

```
DEVICE pic16F877, XT_OSC      ;osilat,r kristal
```

ENDASM?

CLEAR?

```
MOVE?CB 000h, PORTD
```

```
MOVE?CB 000h, PORTB
MOVE?CB 000h, PORTC

LABEL?L _BASLA
MOVE?CB 000h, _X
LABEL?L L00005
CMPIGT?BCL _X, 019h, L00006
SERIN2DPIN?T _GIRIS1
SERIN2MODE?C 0018Ch

LABEL?L L00001
SERIN2WAIT?CL 056h, L00001
SERIN2WAIT?CL 045h, L00001
SERIN2WAIT?CL 05Ah, L00001
SERIN2WAIT?CL 031h, L00001
SERIN2?B _SAYI
MOVE?CB 006h, _VEZNE
CALL?L _HESAP
GOSUB?L _GOSTER
NEXT?BCL _X, 001h, L00005
LABEL?L L00006
MOVE?CB 000h, _X
LABEL?L L00007
CMPIGT?BCL _X, 019h, L00008
SERIN2DPIN?T _GIRIS2
SERIN2MODE?C 0018Ch

LABEL?L L00002
SERIN2WAIT?CL 056h, L00002
SERIN2WAIT?CL 045h, L00002
SERIN2WAIT?CL 05Ah, L00002
SERIN2WAIT?CL 032h, L00002
SERIN2?B _SAYI
MOVE?CB 05Bh, _VEZNE
CALL?L _HESAP
GOSUB?L _GOSTER
NEXT?BCL _X, 001h, L00007
LABEL?L L00008
MOVE?CB 000h, _X
LABEL?L L00009
CMPIGT?BCL _X, 019h, L00010
SERIN2DPIN?T _GIRIS3
SERIN2MODE?C 0018Ch

LABEL?L L00003
SERIN2WAIT?CL 056h, L00003
SERIN2WAIT?CL 045h, L00003
SERIN2WAIT?CL 05Ah, L00003
SERIN2WAIT?CL 033h, L00003
SERIN2?B _SAYI
MOVE?CB 04Fh, _VEZNE
CALL?L _HESAP
GOSUB?L _GOSTER
NEXT?BCL _X, 001h, L00009
LABEL?L L00010
GOTO?L _BASLA
```

```
LABEL?L _GOSTER
MOVE?CB 000h, _X
LABEL?L L00011
CMPGT?BCL _X, 064h, L00012
MOVE?BB _SAY1, _Y
GOSUB?L _GONDER
MOVE?BB _DEGER, PORTB
MOVE?CT 001h, _SEC1
MOVE?CT 001h, _SEC2
MOVE?CT 000h, _SEC3
MOVE?CT 001h, _SEC4
MOVE?CT 001h, _SEC5
MOVE?CT 001h, _SEC6
PAUSE?C _SURE1
MOVE?CT 001h, _SEC3
PAUSE?C _SURE2
MOVE?BB _SAY2, _Y
GOSUB?L _GONDER
MOVE?BB _DEGER, PORTB
MOVE?CT 001h, _SEC1
MOVE?CT 000h, _SEC2
MOVE?CT 001h, _SEC3
MOVE?CT 001h, _SEC4
MOVE?CT 001h, _SEC5
MOVE?CT 001h, _SEC6
PAUSE?C _SURE1
MOVE?CT 001h, _SEC2
PAUSE?C _SURE2
MOVE?BB _SAY3, _Y
GOSUB?L _GONDER
MOVE?BB _DEGER, PORTB
MOVE?CT 000h, _SEC1
MOVE?CT 001h, _SEC2
MOVE?CT 001h, _SEC3
MOVE?CT 001h, _SEC4
MOVE?CT 001h, _SEC5
MOVE?CT 001h, _SEC6
PAUSE?C _SURE1
MOVE?CT 001h, _SEC1
PAUSE?C _SURE2
MOVE?BB _VEZNE, PORTB
MOVE?CT 001h, _SEC1
MOVE?CT 001h, _SEC2
MOVE?CT 001h, _SEC3
MOVE?CT 001h, _SEC4
MOVE?CT 001h, _SEC5
MOVE?CT 000h, _SEC6
PAUSE?C _SURE1
MOVE?CT 001h, _SEC6
PAUSE?C _SURE2
NEXT?BCL _X, 001h, L00011
LABEL?L L00012
RETURN?

LABEL?L _HESAP
MOD?BCB _SAYI, 00Ah, _SAY1
MOD?BCB _SAYI, 064h, _A
```

```
DIV?BCB _A, 00Ah, _SAY2
DIV?BCB _SAYI, 064h, _SAY3
RETURN?
```

```
LABEL?L _GONDER
LOOKUP?BCLB _Y, 00Ah, L00004, _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 0FEh
LURET?C 06Fh
```

```
LABEL?L L00004
RETURN?
```

```
END
```