```
$regfile = "m32def.dat"
'$baud = 19200
$crystal = 16000000
$hwstack = 40
$swstack = 32
$framesize = 32



'Clkpr = &B10000000
'Clkpr = &B00001000


Tccr1a = &B10000000
Tccr1b = &B00000100




Portb = &B11111111
 Ddrb = &B11111111


Portc = &B00011111
 Ddrc = &B11101011



Data_port Alias Portb
Digit1anode Alias Portc. 2
Digit2anode Alias Portc. 1
Digit3anode Alias Portc. 0
Digit4anode Alias Portc. 4
Mode_key Alias Pinc.3



Config Timer1 = Counter , Edge = Falling


Config Timer0 = Timer , Prescale = 1024




On Ovf0 Sample


Enable Ovf0
Enable Interrupts
```

```
Dim Revolution As Word

Dim Digit1 As Byte ,
Dim Digit2 As Byte ,
Dim Digit3 As Byte ,
Dim Digit4 As Byte

Dim Wtemp1 As Word ,
Dim Wtemp2 As Word

Dim Btemp As Byte
Dim Refresh As Bit

Dim Work_mode As Bit
Dim Index As Byte

Declare Sub Calculate_digits

Do
        If Mode_key = 0 Then Incr Index Else Index = 0
        If Index = 5 Then
                Toggle Work_mode

                Call Calculate_digits
End If



If Refresh = 1 Then
        Call Calculate_digits
        Refresh = 0
End If

Data_port = Digit1

Reset Digit1anode
Waitms 4
Set Digit1anode
Data_port = Digit2

Reset Digit2anode
Waitms 4
Set Digit2anode
Data_port = Digit3

Reset Digit3anode
Waitms 4
Set Digit3anode
Data_port = Digit4
```

```
Reset Digit4anode
Waitms 4
Set Digit4anode
Loop


Sub Calculate_digits


If Work_mode = 0 Then Wtemp1 = Revolution * 15 Else Wtemp1 = Revolution \
4
Digit1 = 255
If Wtemp1 > 999 Then
Btemp = Wtemp1 \ 1000
Digit1 = Lookup(btemp , Cyfra)
Wtemp2 = Btemp * 1000
Wtemp1 = Wtemp1 - Wtemp2
End If
Digit2 = 20
If Wtemp1 > 99 Then
Btemp = Wtemp1 \ 100
Digit2 = Lookup(btemp , Cyfra)
Wtemp2 = Btemp * 100
Wtemp1 = Wtemp1 - Wtemp2
End If

If Digit2 = 20 Then If Digit1 = 255 Then Digit2 = 255
Digit3 = 20
If Wtemp1 > 9 Then
Btemp = Wtemp1 \ 10
Digit3 = Lookup(btemp , Cyfra)
Wtemp2 = Btemp * 10
Wtemp1 = Wtemp1 - Wtemp2
End If

If Digit3 = 20 Then If Digit2 = 255 Then Digit3 = 255

Digit4 = Lookup(wtemp1 , Cyfra )


If Work_mode = 1 Then Reset Digit4.4

End Sub


Sample:
Stop Timer1
Revolution = Timer1
Timer1 = 0
Start Timer1
Refresh = 1
Return
```

Cyfra:
Data 20 , 183 , 56 , 147 , 82 , 80 , 55 , 16 , 18 , 255