

```
$regfile = "m8def.dat"  
$crystal = 1000000  
$swstack = 64  
$hwstack = 64  
$framesize = 64
```

```
Config Lcdpin = Pin , Db4 = Pind.4 , Db5 = Pind.5 , Db6 = Pind.6 , Db7 =
```

```
  Pind.7 , E = Pind.3 , Rs = Pind.2
```

```
Config Lcd = 16 * 2
```

```
Cls : Cursor Off
```

```
Config Kbd = Portb
```

```
Config Pinc.5 = Input           'Erase
```

```
Config Pind.0 = Output         'beep
```

```
Config Pind.1 = Output         'Rly
```

```
'Vars
```

```
Dim J_ram As Word , I_ram As Byte
```

```
Dim A As Eram Byte , B As Eram Byte , C As Eram Byte , D As Eram Byte
```

```
  E As Eram Byte , F As Eram Byte , G As Eram Byte , H As Eram Byte
```

```
Dim I As Eram Byte
```

```
Dim Secure As Byte
```

```
Dim J As Eram Word             'Time Value
```

```
Dim Bram As Byte , Cram As Byte , Dram As Byte , Eram1 As Byte
```

```
Dim Pin1 As Byte , Pin2 As Byte , Pin3 As Byte , Pin4 As Byte
```

```
Dim P1 As Eram Byte , P2 As Eram Byte , P3 As Eram Byte , P4 As Eram  
Byte
```

```
Dim T1 As Byte , T2 As Byte , T3 As Byte
```

```
Dim Zarf1 As Word , Zarf2 As Byte
```

```
Dim Time1 As Byte
```

```
Dim Setup As Bit
```

```
Dim Pass As Bit
```

```
Dim Fram As Byte
```

```
Dim Gram As Byte , K As Byte , K1 As Byte
```

```
Dim S As Byte , T As Byte , U As Byte , V As Byte , W As Byte , _
```

```
  X As Byte , Y As Byte , Z As Byte
```

```
Dim Zarfsum As Word
```

```
Dim Jhome As Byte
```

```
Dim Pr1 As Byte , Pr2 As Byte , Pr3 As Byte , Pr4 As Byte
```

```
Dim A1 As Byte , B1 As Byte , C1 As Byte , D1 As Byte , E1 As Byte , _  
    F1 As Byte , G1 As Byte , H1 As Byte  
Deflcdchar 0 , 32 , 4 , 8 , 31 , 8 , 4 , 32 , 32      ' <- for cls  
Deflcdchar 5 , 31 , 17 , 10 , 4 , 4 , 10 , 17 , 31   ' Wait symbol  
Waitms 500  
Cls : Locate 1 , 8 : Lcd Chr(5) : Waitms 200
```

```
'Default Pass=12345678
```

```
S = A : Waitms 20
```

```
T = B : Waitms 20
```

```
U = C : Waitms 20
```

```
V = D : Waitms 20
```

```
W = E : Waitms 20
```

```
X = F : Waitms 20
```

```
Y = G : Waitms 20
```

```
Z = H : Waitms 20
```

```
If S = 255 Then
```

```
    A = 1 : Waitms 20
```

```
End If
```

```
If T = 255 Then
```

```
    B = 2 : Waitms 20
```

```
End If
```

```
If U = 255 Then
```

```
    C = 3 : Waitms 20
```

```
End If
```

```
If V = 255 Then
```

```
    D = 4 : Waitms 20
```

```
End If
```

```
If W = 255 Then
```

```
    E = 5 : Waitms 20
```

```
End If
```

```
If X = 255 Then
```

```
    F = 6 : Waitms 20
```

```
End If
```

```
If Y = 255 Then
```

```
    G = 7 : Waitms 20
```

```
End If
```

```
If Z = 255 Then
```

```
    H = 8 : Waitms 20
```

```
End If
```

```
'Default Pin=1234
Pin1 = P1 : Waitms 20
Pin2 = P2 : Waitms 20
Pin3 = P3 : Waitms 20
Pin4 = P4 : Waitms 20
If Pin1 = 255 Then
  P1 = 1 : Waitms 20
End If
If Pin2 = 255 Then
  P2 = 2 : Waitms 20
End If
If Pin3 = 255 Then
  P3 = 3 : Waitms 20
End If
If Pin4 = 255 Then
  P4 = 4 : Waitms 20
End If
'Default I,J
I_ram = I : Waitms 20
J_ram = J : Waitms 20
If I_ram = 255 Then
  I = 0 : Waitms 20
End If
If J_ram = 1024 Then
  J = 1 : Waitms 20
End If
'Test Default Pin
If Pinc.5 = 1 Then
  Cls : Home
  Cursor Off Noblink
  Lcd " Memory Erased!"
  Sound Pind.0 , 120 , 20
  Wait 1
  Cls : Home
  Lcd "Pass=12345678"
  Sound Pind.0 , 120 , 20
  Waitms 500
  Home L
  Lcd "Pin=1234"
  Sound Pind.0 , 120 , 20
```

'No Timer

```
Wait 2
Secure = 0
A = 1
B = 2
C = 3
D = 4
E = 5
F = 6
G = 7
H = 8
P1 = 1
P2 = 2
P3 = 3
P4 = 4
I = 0
J = 1
End If
Getpass:
Sound Pind.0 , 120 , 20
If Secure = 3 Then
    Cls : Home : Lcd "Standby..."
    Sound Pind.0 , 120 , 20
    Wait 1
    Display Off
    Wait 300
    Display On
    Secure = 0
End If
Gram = 0
Fram = 0
Bram = 0
Cram = 0
Dram = 0
Eram1 = 0
Pin1 = 0
Pin2 = 0
Pin3 = 0
Pin4 = 0
Setup = 0
Pass = 0
```

'Num Of ErrorReport

```

Time1 = 0
S = 0
T = 0
U = 0
V = 0
W = 0
X = 0
Y = 0
Z = 0
Cls : Home
Lcd "Password? F1= "
Locate 1 , 16 : Lcd Chr(0)
Locate 2 , 1
Cursor Blink
Key1:
K = Getkbd()
If K > 15 Then Goto Key1
If K = 3 Then Goto Getpass
Sound Pind.0 , 120 , 20
If K = 3 Or K = 7 Or K = 11 Or K = 12 Or K = 14 Or K = 15 Then Goto
Key1
Bram = Bram + 1
Locate 2 , Bram
Lcd "*"
Waitms 200
Gosub Invert
Cram = Cram + 1                                '1th Number
If Cram = 1 Then
  S = K1
End If
If Cram = 2 Then                                '2th Number
  T = K1
End If
If Cram = 3 Then                                '3th Number
  U = K1
End If
If Cram = 4 Then                                '4th Number
  V = K1
End If
If Cram = 5 Then                                '5th Number

```



```

Sound Pind.0 , 120 , 20
Waitms 500
Key3:
K = Getkbd()
If K > 15 Then Goto Key3
If K = 3 Then
    Reset Portd.1 : Cls : Sound Pind.0 , 120 , 20
    Waitms 200
    Goto Getpass
End If
Goto Key3
End If
If I = 1 Then          'Enable Auto Timer
    Cls : Home : Lcd " Welcome!"
    Sound Pind.0 , 120 , 20
    Jhome = J
    Do
        Jhome = Jhome - 1
        Wait 1
        If Jhome = 0 Then
            Exit Do
        End If
    Loop
    Reset Portd.1
    Goto Getpass
End If
End If
If K = 7 Then          'Setup
    Cls : Home : Lcd "Pin Code?"
    Home L : Lcd "    F1=Back"
    Sound Pind.0 , 120 , 20
    Cursor Blink
    Locate 2 , 1
    Waitms 500
    Key5:
    K = Getkbd()
    If K > 15 Then Goto Key5
    If K = 3 Then Goto Getpass
    Sound Pind.0 , 120 , 20
    If K = 3 Or K = 7 Or K = 11 Or K = 12 Or K = 14 Or _

```

```

K = 15 Then Goto Key5
Dram = Dram + 1
Locate 2 , Dram
Lcd "*"
Waitms 200
Gosub Invert
Eram1 = Eram1 + 1           '1th Number
If Eram1 = 1 Then
  Pin1 = K1
End If
If Eram1 = 2 Then          '2th Number
  Pin2 = K1
End If
If Eram1 = 3 Then          '3th Number
  Pin3 = K1
End If
If Eram1 = 4 Then          '4th Number
  Pin4 = K1
End If
  If Eram1 = 4 Then
    Cursor Noblink
    Goto Chckpin
  End If
Goto Key5
Chckpin:
If Pin1 = P1 Then
  If Pin2 = P2 Then
    If Pin3 = P3 Then
      If Pin4 = P4 Then
        Setup = 1
        Cls : Home
        Lcd "F1=Change Pass"
        Home L
        Lcd "F2=Timer Set"
        Sound Pind.0 , 120 , 100
        Sound Pind.0 , 120 , 80
        Sound Pind.0 , 120 , 60
        Key4:
        K = Getkbd()
        If K > 15 Then Goto Key4

```



```

Sound Pind.0 , 120 , 20
If K <> 3 And K <> 7 Then Goto Key4
If K = 3 Then      'change
  Cls : Home
  Lcd "F1=Main Pass"
  Home L
  Lcd "F2=change pin"
  Sound Pind.0 , 120 , 20
  Waitms 500
Key6:
K = Getkbd()
If K > 15 Then Goto Key6
Sound Pind.0 , 120 , 20
If K <> 3 And K <> 7 Then Goto Key6
If K = 3 Then
  Cls : Home
  Lcd "Type New Pass:"
  Sound Pind.0 , 120 , 20
  Cursor Blink : Locate 2 , 1
  Waitms 500
Key7:
K = Getkbd()
If K > 15 Then Goto Key7
Sound Pind.0 , 120 , 20
If K = 3 Or K = 7 Or K = 11 Or _
  K = 12 Or K = 14 Or K = 15 Then _
  Goto Key7
Gosub Invert
Fram = Fram + 1
If Fram = 1 Then
  A = K1
End If
If Fram = 2 Then
  B = K1
End If
If Fram = 3 Then
  C = K1
End If
If Fram = 4 Then
  D = K1

```

```
End If
If Fram = 5 Then
  E = K1
End If
If Fram = 6 Then
  F = K1
End If
If Fram = 7 Then
  G = K1
End If
If Fram = 8 Then
  H = K1
End If
Locate 2 , Fram
Lcd "-"
Waitms 200
If Fram = 8 Then
  Cursor Noblink
  Waitms 300
  Cls : Home
  Lcd "NEW PASS IS:"
  Sound Pind.0 , 120 , 20
  Home L
  '-----save to ram-----
  A1 = A : Waitms 20
  B1 = B : Waitms 20
  C1 = C : Waitms 20
  D1 = D : Waitms 20
  E1 = E : Waitms 20
  F1 = F : Waitms 20
  G1 = G : Waitms 20
  H1 = H : Waitms 20
  Lcd A1 ; B1 ; C1 ; D1 ; E1 ; _
  F1 ; G1 ; H1
  Wait 2
  Goto Getpass
End If
Goto Key7
End If
If K = 7 Then
```

```

Cls : Home
Lcd "Type New Pincode"
Sound Pind.0 , 120 , 20
Cursor Blink : Locate 2 , 1
Waitms 500
Key8:
K = Getkbd()
If K > 15 Then Goto Key8
Sound Pind.0 , 120 , 20
If K = 3 Or K = 7 Or K = 11 Or _
  K = 12 Or K = 14 Or K = 15 Then _
  Goto Key8
Gosub Invert
Gram = Gram + 1
If Gram = 1 Then
  P1 = K1
End If
If Gram = 2 Then
  P2 = K1
End If
If Gram = 3 Then
  P3 = K1
End If
If Gram = 4 Then
  P4 = K1
End If
Locate 2 , Gram
Lcd "-"
Waitms 200
If Gram = 4 Then
  Cursor Noblink
  Waitms 300
  Cls : Home
  Lcd "NEW PIN IS:"
  Sound Pind.0 , 120 , 20
  '*****Download*****
  Pr1 = P1 : Waitms 20
  Pr2 = P2 : Waitms 20
  Pr3 = P3 : Waitms 20
  Pr4 = P4 : Waitms 20

```

```

        Home L
        Lcd Pr1 ; Pr2 ; Pr3 ; Pr4
        Wait 2
        Goto Getpass
    End If
    Goto Key8
End If
End If
If K = 7 Then      'Timer set
    Cls : Home
    Lcd "F1=On/Off"
    Home L
    Lcd "F2=Time"
    Sound Pind.0 , 120 , 20
    Waitms 500
    Key9:
    K = Getkbd()
    If K > 15 Then Goto Key9
    Sound Pind.0 , 120 , 20
    If K <> 3 And K <> 7 Then Goto Key9
    If K = 3 Then
        Cls : Home
        Lcd "0=off 1=on 2=bck"
        If I = 0 Then
            Home L
            Lcd "[TIMER OFF]"
            Sound Pind.0 , 120 , 20
        End If
        If I = 1 Then
            Home L
            Lcd "[TIMER ON]"
            Sound Pind.0 , 120 , 20
        End If
        Waitms 500
    Key10:
    K = Getkbd()
    If K > 15 Then Goto Key10
    'Waitms 500
    If K = 0 Then
        I = 1
    End If
End If

```

```

Locate 2 , 1
Lcd "      "
Locate 2 , 1
Lcd "[TIMER ON]"
Sound Pind.0 , 120 , 20
Waitms 200
End If
If K = 13 Then
  I = 0
  Locate 2 , 1
  Lcd "      "
  Locate 2 , 1
  Lcd "[TIMER OFF]"
  Sound Pind.0 , 120 , 20
  Waitms 200
End If
If K = 1 Then
  Sound Pind.0 , 120 , 20 : Cls
  Waitms 200
  Goto Getpass
End If
Goto Key10
End If
If K = 7 Then
  Cls : Home
  Lcd "EnterTime(x<255)"
  Locate 2 , 1 : Cursor Blink
  Wait 1
  Key11:
  K = Getkbd()
  If K > 15 Then Goto Key11
  Sound Pind.0 , 120 , 20
  'Waitms 200
  '----- Decode -----
  If K = 3 Or K = 7 Or K = 11 Or _
  K = 12 Or K = 14 Or K = 15 Then _
  Goto Key11
  Gosub Invert
  Time1 = Time1 + 1
  If Time1 = 1 Then

```

```

    T1 = K1
End If
If Time1 = 2 Then
    T2 = K1
End If
If Time1 = 3 Then
    T3 = K1
End If
Locate 2 , Time1
Lcd K1
Waitms 200
If Time1 = 3 Then
    Cursor Noblink
    Waitms 100
    Cls : Home
    Lcd "Calculate..."
    Sound Pind.0 , 120 , 20
    Goto Calc
End If
Goto Key11
Calc:
Zarf1 = T1 * 100
Zarf2 = T2 * 10
Zarfsum = Zarf1 + Zarf2
Zarfsum = Zarfsum + T3
J = Zarfsum
If J = 0 Then
    J = 1
    Cls : Home
    Lcd "ERROR! x=0 !"
    Sound Pind.0 , 120 , 60
    Sound Pind.0 , 120 , 80
    Sound Pind.0 , 120 , 100
    Wait 1
    'Goto Getpass
End If
If J > 255 Then
    Cls : Home
    Lcd "ERROR! x>255"
    Sound Pind.0 , 120 , 60

```

```
        Sound Pind.0 , 120 , 80
        Sound Pind.0 , 120 , 100
        J = 1      'Not Biger Byte!
        Wait 1
        'Goto Getpass
    End If
End If
End If
End If
End If
End If
End If
End If
If Setup = 0 Then
    Cls : Home
    Lcd "Pin ERROR!"
    Sound Pind.0 , 120 , 60
    Sound Pind.0 , 120 , 80
    Sound Pind.0 , 120 , 100
    Wait 1
    Goto Getpass
End If
End If
End If
End If
End If
End If
End If
End If
End If
End If
If Pass = 0 Then
    Cls : Home
    Lcd "ERROR!"
    Sound Pind.0 , 120 , 60
    Sound Pind.0 , 120 , 80
    Sound Pind.0 , 120 , 100
    Secure = Secure + 1
    Wait 1
    Goto Getpass
End If
```

Goto Getpass

End

'end program

Invert:

If K = 0 Then K1 = 1

If K = 1 Then K1 = 2

If K = 2 Then K1 = 3

If K = 4 Then K1 = 4

If K = 5 Then K1 = 5

If K = 6 Then K1 = 6

If K = 8 Then K1 = 7

If K = 9 Then K1 = 8

If K = 10 Then K1 = 9

If K = 13 Then K1 = 0

Return

'End Of file