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'Quick and dirty servo routine
'Supports :-
' 1 servo on portb.0
' 1 switch on portb.4
,
' When the switch is ON the servos move to position 100 (full left)
' When the switch is OFF the servos move to position 0 (full right)
' It takes 1 seconds for the servos to move full range
,
'Hardware setup
$regfile = "2313def.dat"           'setup lib for used CPU
$crystal = 10000000                'setup crystal for ians board

Const Minservo = 40
Const Maxservo = 150

Config Servos = 1 , Servo1 = Portb.0 , Reload = 10 , Timer = Timer0
Dim Servoarray(2) As Byte          'setup Servo code

Config Portb = Output
Config Portd = Output
Config Portb.4 = Input

Portb.4 = 1                        'enable pullup
Enable Timer0
Enable Interrupts

Servoarray(1) = Minservo           'set start position

Do
  Toggle Portd.6                   'flickering signal
  If Pinb.4 = 1 Then               'if key pressed
    Servoarray(1) = Maxservo       'move servo to max position
  Else
    Servoarray(1) = Minservo       'otherwise move to min position
  End If

  Select Case Servoarray(1)
    Case Is < Servo(1)              'slow scroll servo 1
      Servo(1) = Servo(1) - 1      'every 10ms move one position
      Enable Timer0                'switch on servo
    Case Is > Servo(1)
      Servo(1) = Servo(1) + 1
      Enable Timer0                'switch on servo
    Case Is = Servo(1)
      Disable Timer0              'switch off servo
  End Select
  Waitms 10                        'wait abit
Loop
End

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