

```

{
*****
* Name      : UNTITLED.BAS
* Author    : [select VIEW...EDITOR OPTIONS]
* Notice    : Copyright (c) 2025 [select VIEW...EDITOR OPTIONS]
*           : All Rights Reserved
* Date      : 5/15/2025
* Version   : 1.0
* Notes     :
*           :
*****
}
Device = 18F43K22
Clock = 8

// int osc and IO pin libraries
Include "intosc.bas"
#option DIGITALIO_INIT = true // automatically call setalldigital
Include "setdigitalio.bas"
Include "SHIFT.BAS"

Dim LATCH As PORTB.4 // hc595 pin 12 LCHCLK
Dim DATA As PORTA.1 // hc595 pin 14 SDI
Dim CLK As PORTB.3 // hc595 pin 11 SFTCLK
Dim RST As PORTB.1 // hc595 pin 10 RSTn (no connection to pcb)
Dim SDO As PORTA.4 // hc595 pin 9 SDO QH' shift out

Dim Leds As Byte

// set pin modes
Shift.SetClock(CLK)
Shift.SetOutput(DATA)
Shift.SetInput(SDO)
High(RST)
Low(LATCH)

// if there was a connection...
//Low(RST)
//DelayUS(100)
//High(RST)

// cycle leds
Leds = 0
While (true)

//remove {curly brackets} around each section to test

{//ORIGINAL CODE - What happens here?
    If (Leds = 0) Then
        Leds = 1
    EndIf
    Shift.Out(MSB_FIRST, Leds, 8)
}

```

```

    LATCH = 1
    LATCH = 0
    DelayMS(250)
    Leds = Leds << 1
// END OF ORIGINAL CODE
}

```

```

{ //WHAT HAPPENS IF YOU TRY THIS?
Leds = %11111111
Shift.Out(MSB_FIRST, Leds, 8)
LATCH = 1
LATCH = 0
Delayms(500)
Leds = %10101010
Shift.Out(MSB_FIRST, Leds, 8)
LATCH = 1
LATCH = 0
Delayms(500)
//END OF EXAMPLE 1
}

```

```

{ //WHAT HAPPENS IF YOU TRY THIS?
Leds = %10101010
Shift.Out(MSB_FIRST, Leds, 8)
LATCH = 1
LATCH = 0
Delayms(500)
Leds = %01010101
Shift.Out(MSB_FIRST, Leds, 8)
LATCH = 1
LATCH = 0
Delayms(500)
//END OF EXAMPLE 2
}

```

**End While**