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'-----Title-----
' File.....pic_as_sink.pbp
' Started....7/7/09
' Microcontroller used:  Microchip Technology 16F88
'                          microchip.com
' PicBasic Pro Code:  micro-Engineering Labs, Inc.
'                          melabs.com

'-----Program Description-----
' PIC acts a sink and turns on LED on for 2 second, then
' turns off the LED for 100 msec.

'-----Related Lesson-----
' pic_as_sink.pbp is used in the lesson Source and Sink Outputs /
' Active High and Low Inputs at:
' http://www.cornerstonerobotics.
org/curriculum/lessons_year2/eri119_active_high_active_low.pdf

'-----PIC Connections-----
'
'      16F88 Pin           Wiring
'      -----           -----
'      RB0                LED to 150 Ohm resistor to +5 V
'      RB4                4.7K Resistor to +5 V
'      RB5                Ground
'      RB14               +5 V

'-----Initialization-----
      TRISB = %11111110      ' Sets up RB0 pin of PORTB as an output
                          ' and pins RB7-RB1 of PORTB as inputs

      OSCCON = $60          ' Sets the internal oscillator in the
                          ' 16F88 to 4 MHz

'-----Main Code-----
loop:                ' Label for beginning loop

      HIGH 0            ' Sets pin PORTB.0,(RB0), output at HIGH (+5 volts)

      PAUSE 100         ' Pause 100 milliseconds (0.1 seconds) with LED off

      LOW 0             ' Sets pin PORTB.0,(RB0), output at LOW (0 volts)

      PAUSE 2000       ' Pause 2000 milliseconds (2 second) with LED on

      GOTO loop        ' Jump to loop label
                          ' Makes the program run forever.

      END
```