

'-----Title-----'

' File: blink2.pbp
' Started: 11/4/03
' Microcontroller used: Microchip Technology 16F88
' microchip.com
' PicBasic Pro Code: micro-Engineering Labs, Inc.
' melabs.com

'-----Program Description-----'

' LED flashes on/off one time per half second.

'-----Related Lesson-----'

' blink2.pbp is used in the lesson PIC PROGRAMMING 2 at:
' http://cornerstonerobotics.org/curriculum/lessons_year2/erii12_pic_programming2.pdf

'-----New PicBasic Pro Commands-----'

' The PicBasic Pro Compiler Manual is on line at:
' <http://www.microengineeringlabs.com/resources/index.htm#Manuals>
,

' HIGH pin
' Sets pin to HIGH(+5v) Pin must be a number between
' 0 and 15(see below).
' Around page 74 in the PicBasic Pro Compiler Manual
,

' LOW pin
' Sets pin to LOW(0v) Pin must be a number between
' 0 and 15(see below).
' Around page 104 in the PicBasic Pro Compiler Manual

'-----Pin List for 18 Pin Microcontrollers-----'

' Check individual data sheets for output/input pins See:
' http://www.microchip.com/stellent/idcplg?IdcService=SS_GET_PAGE&nodeId=2046

Pin	PORT/Pin
0	PORTB.0
1	PORTB.1
2	PORTB.2
3	PORTB.3
4	PORTB.4
5	PORTB.5
6	PORTB.6
7	PORTB.7
8	PORTA.0
9	PORTA.1
10	PORTA.2
11	PORTA.3
12	PORTA.4

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'      13      Not Used
'      14      Not Used
'      15      Not Used

'-----Revision History-----

' 2/20/06:  Comments added
' 10/27/07: Change MCU from 16F84A to 16F88

'-----Initialization-----

      TRISB = %11111110  ' Sets up pin B0 of PORTB as an output
                        ' and pins B7-B1 of PORTB as inputs

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

'-----Main Code-----

loop:

      HIGH 0            ' Makes pin B.0 output at high (5 volts)

      PAUSE 250         ' Pause 250 milliseconds (1/4 seconds) with LED on

      LOW 0             ' Makes pin B.0 output at low (0 volts)

      PAUSE 250         ' Pause 250 milliseconds (1/4 seconds) with LED off

      GOTO loop        ' Jump to loop label

      END
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