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'-----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-----

start:

      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 start      ' Jump to loop label

      END
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