```
'--------------Title-------------

' File......blink1.pbp
' Started....11/3/03
' Microcontroller used:  Microchip Technology 16F88
'                          microchip.com
' PicBasic Pro Code: micro-Engineering Labs, Inc.
'                      melabs.com

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

' LED flashes one time per second.

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

' blink1.pbp is used in the lesson INTRODUCTION TO PROGRAMMING 1 at:
' http://www.cornerstonerobotics.
org/curriculum/lessons_year2/erii11_pic_introduction_programming1.pdf

'------------Comments------------

' Use a solderless breadboards to fabricate
' the circuit blink1.  For a tutorial about
' solderless breadboards, consult the book Robot
' Building For Beginners by David Cook. Also see:
' http://cornerstonerobotics.org/curriculum/lessons_year1/ER%20Week3,
%20Solderless%20Breadboard.pdf
'
' In-Circuit Serial Programming(ICSP):  See:
' http://cornerstonerobotics.
org/curriculum/lessons_year2/erii15_in_circuit_serial_programming.pdf

'---------PIC Connections--------

'     16F88 Pin              Wiring
'     ---------              ----------
'     RB0                    150 Ohm resistor to LED to GND
'     Vdd                    +5 V
'     Vss                    Ground
'     MCLR                   4.7K Resistor to +5 V

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

' The source for PicBasic Pro commands is
' from the PicBasic Pro Compiler Manual by
' microEngineering Labs, Inc.
' The PicBasic Pro Compiler Manual is on line at:
' http://www.microengineeringlabs.com/resources/index.htm#Manuals
'
' PAUSE period
' This will pause the program for a period of 1
' to 65,535 milliseconds or .001 to 65.535 sec.
' Around page 112 in the PicBasic Pro Compiler Manual
'
' GOTO label
```

```
' Program execution jumps to location of label.
' Around page 73 in the PicBasic Pro Compiler Manual
'
' END
' Stops the program execution.
' Around page 68 in the PicBasic Pro Compiler Manual

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

' 5/24/08 Convert from PIC16F84A to PIC16F88
' and add 16F88 oscillator initialization

'-----------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------------

start:                 ' Label for beginning loop

    PORTB.0 = 1        ' Makes pin PORTB.0,(RB0), output at HIGH (+5 volts)

    PAUSE 500          ' Pause 500 milliseconds (0.5 seconds) with LED on

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

    PAUSE 500          ' Pause 500 milliseconds (0.5 seconds) with LED off

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

    END                ' This line is in case the
                       ' the program gets lost.
```