

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

' File: 16F877A\_blink2.pbp  
' Started: 11/4/03  
' Microcontroller used: Microchip Technology 16F877A  
' 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 (the 16F88 program) is used in the  
' lesson PIC PROGRAMMING 2 at:  
' [http://cornerstonerobotics.org/curriculum/lessons\\_year2/eri112\\_pic\\_programming2.pdf](http://cornerstonerobotics.org/curriculum/lessons_year2/eri112_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).  
' Look 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).  
' Look around page 104 in the PicBasic Pro Compiler Manual

'-----Pin List for 40 Pin Microcontrollers-----'

' Check individual data sheets for output/input pins. See:  
' [http://www.microchip.com/stellent/idcplg?IdcService=SS\\_GET\\_PAGE&nodeId=2046](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	PORTC.0
9	PORTC.1
10	PORTC.2
11	PORTC.3

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'      12      PORTC.4
'      13      PORTC.5
'      14      PORTC.6
'      15      PORTC.7
```

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

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' 2/20/06:  Comments added
' 10/27/07: Change MCU from 16F84A to 16F88
' 1/1/09:   Change MCU from 16F88 to 16F877A
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*'-----Initialization-----*

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

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

start:

```
        HIGH 0          ' Makes pin RB0 output at HIGH (5 volts)
        PAUSE 250       ' Pause 250 milliseconds (1/4 seconds) with LED on
        LOW 0           ' Makes pin RB0 output at LOW (0 volts)
        PAUSE 250       ' Pause 250 milliseconds (1/4 seconds) with LED off
        GOTO start      ' Jump to loop label
        END
```