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```
'-----Title-----
' File.....16F877A_blink3.pbp
' Started....4/13/06
' Microcontroller used:  Microchip Technology 16F877A
'                          microchip.com
' PicBasic Pro Code, micro-Engineering Labs, Inc.
'                          melabs.com

'-----Program Description-----
' Turns one LED on and off 5 times.

'-----Related Lesson-----
' blink3.pbp (the 16F88 program) is used in the
' lesson PIC PROGRAMMING 2 at:
' 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
'
'   FOR Count = Start TO End {STEP {-} Inc}
'       {Body}
'   NEXT {Count}
' If no STEP is given, the increment is automatically +1.
' Look around page 70 in the PicBasic Pro Compiler Manual

'-----Revision History-----
' 10/27/07:  Change MCU from 16F84A to 16F88
' 1/1/09:    Change MCU from 16F88 to 16F877A

'-----Variables-----
'
'   c0 VAR BYTE           ' Variable for counting

'-----Initialization-----
'
'   PORTB = %00000000     ' Sets all PORTB pins to LOW
'
'   TRISB = %00000000     ' Sets up pins RB7-RB0 of PORTB as outputs

'-----Pin List for 40 Pin Microcontrollers-----
'
'   Pin      PORT/Pin
'
'   0        PORTB.0
'   1        PORTB.1
'   2        PORTB.2
'   3        PORTB.3
'   4        PORTB.4
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'      5      PORTB.5
'      6      PORTB.6
'      7      PORTB.7
'      8      PORTC.0
'      9      PORTC.1
'     10      PORTC.2
'     11      PORTC.3
'     12      PORTC.4
'     13      PORTC.5
'     14      PORTC.6
'     15      PORTC.7
```

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

```
start:
```

```
FOR c0 = 1 TO 5      ' Loop through count 5 times
                    ' Since STEP is not given, the
                    ' increment is automatically +1.

HIGH 0              ' Turns on LED connected to PORTB.0(RB0)

PAUSE 500           ' Holds LED on for 500 milli-seconds

LOW 0               ' Turns off LED connected to PORTB.0

PAUSE 500           ' Holds LED off for 500 milli-seconds

NEXT                ' Goes to next c0

END
```