

```
'-----Title-----
' File.....blink3.pbp
' Started....4/13/06
' Microcontroller used:  Microchip Technology 16F88
'                          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 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
'
'   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

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

'-----Pin List for 18 Pin Microcontrollers-----
'
'       Pin      PORT/Pin
'
'       0       PORTB.0
'       1       PORTB.1
'       2       PORTB.2
'       3       PORTB.3
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```
'      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
'     13      Not Used
'     14      Not Used
'     15      Not Used
```

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'-----Main Code-----
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start:
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```
    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
```