

```
'-----Title-----  
  
' File.....railroad.pbp  
' Started....6/1/05  
' Microcontroller used:  Microchip Technology 16F88  
'                          microchip.com  
' PicBasic Pro Code, micro-Engineering Labs, Inc.  
'                          melabs.com  
  
'-----Program Description-----  
  
' Two LED's flash like railroad crossing.  
  
'-----Related Lesson-----  
  
' railroad.pbp is used in the lesson INTRODUCTION TO PROGRAMMING 1 at:  
' http://www.cornerstonerobotics.org/curriculum/lessons\_year2/eri111\_pic\_introduction\_programming1.pdf  
  
'-----Revision History-----  
  
' 11/17/08  Update to PIC16F88 and  
'          add 16F88 oscillator initialization  
  
'-----Initialization-----  
  
    TRISB = %11111100      ' Sets up pins RB0 & RB1 of PORTB as outputs  
                          ' and pins RB2-RB7 of PORTB as inputs  
  
    OSCCON = $60          ' Sets the internal oscillator in the  
                          ' 16F88 to 4 MHz  
  
'-----Main Code-----  
  
loop:  
  
    HIGH 0      ' Makes pin RB0 output HIGH (+5 volts)  
  
    LOW 1       ' Makes pin RB1 output LOW (0 volts)  
  
    PAUSE 500   ' Pause 500 milliseconds (1/2 seconds) with LED on  
  
    LOW 0       ' Makes pin RB0 output LOW (0 volts)  
  
    HIGH 1      ' Makes pin RB1 output High (+5 volts)  
  
    PAUSE 500   ' Pause 500 milliseconds (1/2 seconds)with LED on  
  
    GOTO loop   ' Jump to loop label and start all over again  
  
END
```