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'-----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-----

start:

    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 start  ' Jump to start label and start all over again

    END
```