```
'--------------Title---------------

' File......16F877A_railroad.pbp
' Started....6/1/05
' Microcontroller used:  Microchip Technology 16F877A
'                        microchip.com
' PicBasic Pro Code, micro-Engineering Labs, Inc.
'                    melabs.com

'--------Program Desciption--------

' Two LED's flash like railroad crossing.

'-------------Schematic------------

' See schematic at:
' http://www.cornerstonerobotics.org/schematics/pic16f877a_railroad.pdf

'----------Related Lesson----------

' railroad.pbp (the 16F88 program) is used in the lesson
' INTRODUCTION TO PROGRAMMING 1 at:
' http://www.cornerstonerobotics.
org/curriculum/lessons_year2/erii11_pic_introduction_programming1.pdf

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

' 11/17/08  Update to PIC16F88 and
' add 16F88 oscillator initialization
' 1/1/09  Change PIC16F88 to PIC16F877A

'----------Initialization----------

    TRISB = %11111100       ' Sets up pins RB0 & RB1 of PORTB as outputs
                            ' and pins RB2-RB7 of PORTB as inputs

'-------------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
```