
```
'-----Title-----
' File.....master_slave_master1.pbp
' Started....11/17/07
' Microcontroller used:  Microchip Technology 16F88
'                          microchip.com
' PBPro Code, micro-Engineering Labs, Inc.
'                          melabs.com

'-----Program Description-----
' Master microcontroller (MCU) drives a second (slave) MCU
' by sending it a timing signal.
' This master program will flash an LED 5 times then send
' a signal to activate the program master_slave_slave1.pbp
' on the second slave microcontroller.

'-----Related Lesson-----
' master_slave_master1.pbp is used in the
' lesson PIC PROGRAMMING 3 SERVOS at:
' http://cornerstonerobotics.
org/curriculum/lessons_year2/eri113_pic_programming3_servos.pdf

'-----New PicBasic Pro Commands-----

'-----Variables-----

    c0          VAR      BYTE      ' Byte for counter
    led         VAR      PORTB.0    ' Labels PORTB.0 as led
    slaveout    VAR      PORTB.1    ' Labels PORTB.1 as slave output

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

    TRISB = %11111100      ' Sets PORTB.0 and PORTB.1 as outputs,
                          ' PORTB.2 - PORTB.7 as inputs

    PORTB = %00000000     ' Sets all PORTB pins at LOW

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

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

loop:

    FOR c0 = 1 TO 5      ' Counts from 1 to 5

    HIGH led            ' Sets led (PORTB.0) to HIGH

    PAUSE 500           ' Pause 500 ms (1/2 second)

    LOW led             ' Sets led (PORTB.0) to LOW

    PAUSE 500           ' Pause 500 ms
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NEXT                ' Goes to next value of c0
HIGH slaveout      ' Sends HIGH signal out to slave
                    ' MCU from PORTB.1
PAUSE 1           ' Pause 1 ms
LOW slaveout       ' Sends LOW signal out to slave
                    ' MCU from PORTB.1
PAUSE 1000        ' Pause 1000 ms
GOTO loop          ' Loop to loop label
END
```