

sender.bas

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' sender.bas

' Code for the sender PIC in an example illustrating A/D conversion,
' hand shaking, serial communication, and LCD output

' Define non-default configuration settings (from the PIC16F88 code template)
#CONFIG
  __CONFIG _CONFIG1, _INTRC_IO & _PWRTE_ON & _MCLR_OFF & _LVP_OFF
#endconfig

' Set the internal oscillator frequency to 8 MHz
Define OSC 8
OSCCON.4 = 1
OSCCON.5 = 1
OSCCON.6 = 1

' Setup the A/D converter
ANSEL = 0      ' turn off all A/D converters
ANSEL.0 = 1    ' turn on the AN0 (pin 17) A/D converter

' Define variables and constants
led          Var    PORTA.2 ' LED attached to pin RA2
hand_shake   Var    PORTA.1 ' Sender
serial       Var    PORTB.0 ' serial communication through pin RB0
pot_value    Var    Byte    ' POT value sent to receiver PIC
baud_rate    Con    2       ' 9600 baud-rate mode for serial communication

' Blink the LED three times to indicate the PIC is running
Gosub Blink : Gosub Blink : Gosub Blink

' Main program loop
start:
  ' Wait for the sender to set the handshake line high
  Do While (hand_shake == 0) : Loop

  ' Read the POT value and send it serially to the receiver PIC
  Adcin 0, pot_value
  Serout serial, baud_rate, [pot_value]

  ' Blink the LED to indicate the value was sent
  Gosub Blink
Goto start

End ' end of main program (not required since never reached)

' Subroutine to blink the LED on and off once
Blink:
  High led      ' turn on the LED
  Pause 250     ' wait 1/4 second
  Low led       ' turn off the LED
  Pause 250     ' wait 1/4 second
Return
```