Serial Call and Response

This program sends an ASCII A (byte of value 65) on startup

and repeats that until it gets some data in.

Then it waits for a byte in the serial port, and

sends three sensor values whenever it gets a byte in.

Thanks to Greg Shakar and Scott Fitzgerald for the improvements

The circuit:

\* potentiometers attached to analog inputs 0 and 1

\* pushbutton attached to digital I/O 11

Created 26 Sept. 2005

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modified 24 April 2012

by Tom Igoe and Scott Fitzgerald

Modified 19 April 2013

By Sean Alvarado

Hardware Required:

\* MSP-EXP430G2 LaunchPad

\* (2) potentiometers

\* momentary switch/button

\* (3) 10K ohm resistors

\* breadboard

\* hook-up wire

This example code is in the public domain.

\*/

int play,v1,v2,v3,v4,v5;

int inByte = 0; // incoming serial byte

void setup()

{

// start serial port at 9600 bps:

Serial.begin(9600);

pinMode(11, INPUT); // digital sensor is on digital pin 11

establishContact(); // send a byte to establish contact until receiver responds

}

void loop()

{

play=v1=v2=v3=v4=v5=0;

// if we get a valid byte, read analog ins:

if (Serial.available())

{

// get incoming byte:

inByte = Serial.read();

} // read first analog input, divide by 4 to make the range 0-255:

if(inByte==1)

{

v1=0;delay(1000);play=0;delay(2000);play=1;v1=1;

}

else if(inByte==2)

{

v2=0;delay(1000);play=0;delay(2000);play=1;v2=1;

}

else if(inByte==3)

{

v3=0;delay(1000);play=0;delay(2000);play=1;v3=1;

}

else if(inByte==4)

{

v4=0;delay(1000);play=0;delay(2000);play=1;v4=1;

}

else if(inByte==5)

{

v5=0;delay(1000);play=0;delay(2000);play=1;v5=1;

}

}

void establishContact() {

while (Serial.available() <= 0) {

Serial.println('A'); // send a capital A

delay(300);

}

}