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/* Strain Gauge Shield/Instrument Amplifier (SGS) Arduino Coding

  Designer and Date of release:
  ABE manufacturing including open source
  August 2014

  Hardware:
  Strain Gauge Shield v1.0

  Reference:
  Arduino Sample code example ReadAnalogVoltage

  Description:
  Arduino sample code adjusted for specific shield application and understanding
  Reads an analog input on pin 0 for Strain1 and on pin 1 for Strain2, and prints the result to the serial
  monitor.
  All circuitry have been put in place to only read from the analog pins 0 and 1.
  For any hardware user specific changes please consult the user manual.

  This example code is in the public domain.
 */

// the setup routine runs once when you press reset:
void setup()
{
  // initialize serial communication at 9600 bits per second:
  Serial.begin(9600);
}

// the loop routine runs over and over again forever:
void loop()
{
  // read the input on analog pin 0:
  int Strain1Value = analogRead(A0);
  int Strain2Value = analogRead(A1);

  // print out the value you read on the analog inputs:
  Serial.println(Strain1Value);                    // Indicated values displayed, between 0 and 1023, and
  can be converted to voltage depending on 3.3V or 5V
  Serial.println(Strain2Value);
  delay(500);
}
```