Name: _____ Date: _____ Class: _____

IR Sensor Calibration Code

/* M. Supal

This program will read analog input from an analog sensor connected to analog pin 1 of the Arduino. When you wire your circuit, connect the output pin from the IR sensor to pin 1 of the Arduino. The pin labeled VCC on the IR sensor goes to 5 volts and the pin labeled GND goes to ground. The values from the IR sensor will be sent at a rate of 9600 baud (bits per second) and the analog values will be displayed on the serial monitor as numbers. The numbers displayed on the serial monitor will be between 0 and 1023 (8 bits), which are proportional to the voltage on the pin*/

```
// define global variables

int sensorPin = 1; //select the analog input pin 1 on the Arduino (the output pin from the IR sensor goes here)

int sensorVal = 0; // variable to store the value coming from the sensor, set to 0 initially

void setup()

{

  Serial.begin(9600); // set the data rate in bits per second for data transmission

}


void loop()

{

 Serial.print("IR Sensor Readings: "); // print data to the serial port

 sensorVal = analogRead(sensorPin); // read an analog value from sensor and store it

 Serial.println(sensorVal); // print a sensor value to the serial port

}
```