

```
1  /// Basic calibration program for IR sensor
2  int irSensor = A1;
3  int pushButton = 2;
4
5  void setup()
6  {
7      pinMode(pushButton, INPUT_PULLUP);
8      Serial.begin(9600);
9      Serial.println("Setup Complete..");
10 }
11
12 void loop()
13 {
14     Serial.println("Waiting...");
15     while (digitalRead(pushButton) == 1)
16         ; // wait for button push
17     while (digitalRead(pushButton) == 0)
18         ; // wait for button release
19
20     double averageValue = 0;
21     for (int i = 0; i < 5; i++)
22     {
23         averageValue += analogRead(irSensor);
24         delay(250);
25     }
26     averageValue = averageValue / 5;
27     Serial.print("Sensor Reading: ");
28     Serial.println(averageValue);
29 }
30 }
31
```