int potPin = 2; // select the input pin for the potentiometer

int potPin1 = 3;

int potVal = 0; // variable to store the value coming from the sensor

int potVal1 = 0;

int ledPin = 11;

int ledPin1 = 10;

void setup() {

 Serial.begin(9600);//bit rate for data transfer over Serial communication.

 //This must match the serial monitor for the Arduino IDE

 pinMode(potPin, INPUT); //Optional, pins are listed as inputs by default

 pinMode(potPin1, INPUT);

 pinMode(ledPin, OUTPUT);

 pinMode(ledPin1, OUTPUT);

}

void loop() {

 potVal = analogRead(potPin); // read the value from the sensor

 potVal1 = analogRead(potPin1);

 int ledPWM = map(potVal, 0, 1023, 0, 255);

 int ledPWM1 = map(potVal1, 0, 1023, 0, 255);

 analogWrite(ledPin, ledPWM);

 analogWrite(ledPin1, ledPWM1);

 Serial.println(potVal);

 Serial.println(potVal1);

 Serial.println(ledPWM);

 Serial.println(ledPWM1);

 delay(100);//Lowers the testing rate and limits the speed of data being displayed

 //to the Serial Monitor

}