const int SENSORPIN = A0;

const int LED = 3;

int sensorValue = 0;

void setup() {

// put your setup code here, to run once:

Serial.begin(9600);

pinMode(SENSORPIN, INPUT);

pinMode(LED, OUTPUT);

}

void loop() {

// put your main code here, to run repeatedly:

sensorValue = analogRead(SENSORPIN);

Serial.println(sensorValue);

if(sensorValue == 0){

digitalWrite(LED, LOW);

}else if(sensorValue > 0 && sensorValue < 50){

sensorValue = analogRead(SENSORPIN);

Serial.println(sensorValue);

analogWrite(LED, 25.5);

}else if(sensorValue > 50 && sensorValue < 100){

analogWrite(LED, 51);

}else if(sensorValue > 100 && sensorValue < 200){

sensorValue = analogRead(SENSORPIN);

Serial.println(sensorValue);

analogWrite(LED, 76.5);

}else if(sensorValue > 300 && sensorValue < 400){

sensorValue = analogRead(SENSORPIN);

Serial.println(sensorValue);

analogWrite(LED, 102);

}else if(sensorValue > 400 && sensorValue < 500){

sensorValue = analogRead(SENSORPIN);

Serial.println(sensorValue);

analogWrite(LED, 127.5);

}else if(sensorValue > 600 && sensorValue < 700){

analogWrite(LED, 153);

}else if(sensorValue > 700 && sensorValue < 800){

analogWrite(LED, 178.5);

}else if(sensorValue > 800 && sensorValue < 900){

analogWrite(LED, 204);

}else if(sensorValue > 900 && sensorValue < 1000){

analogWrite(LED, 229.5);

}else if(sensorValue >= 1000){

sensorValue = analogRead(SENSORPIN);

Serial.println(sensorValue);

digitalWrite(LED, HIGH);

}

}