Assignment 1-Code

// C++ code

int PEIZO = 3;

int PIR = 2;

int tmp = 1;

int TmpVal;

int pirLed = 4;

int TempLed = 5;

void setup()

{

pinMode(PEIZO,OUTPUT);

pinMode(tmp, INPUT);

pinMode(PIR, INPUT);

pinMode(pirLed, OUTPUT);

pinMode(TempLed, OUTPUT);

Serial.begin(9600);

}

void loop()

{

TmpVal = analogRead(tmp);

Serial.write(TmpVal);

if(TmpVal>246){

digitalWrite(TempLed,HIGH);

for(int i=255;i>0;i--){

delay(1);

analogWrite(PEIZO,i);

}

analogWrite(PEIZO,0);

digitalWrite(TempLed,LOW);

delay(100);

}

if(digitalRead(PIR) == HIGH){

digitalWrite(pirLed,HIGH);

for(int i=0;i<255;i++){

delay(1);

int x = (i\*i\*i)%255;

analogWrite(PEIZO,x);

}

analogWrite(PEIZO,0);

digitalWrite(pirLed,LOW);

delay(100);

}

}