

### ASSIGNMENT-1

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#### PROGRAM:

```
// 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);
    }
}
```



