

```
1  int t=2;
2  int e=3;
3
4  void setup()
5  {
6      Serial.begin(9600);
7      pinMode(t,OUTPUT);
8      pinMode(e,INPUT);
9      pinMode(12,OUTPUT);
10 }
11
12 void loop()
13 {
14     //ultrasonic sensor
15     digitalWrite(t,LOW);
16     digitalWrite(t,HIGH);
17     delayMicroseconds(10);
18     digitalWrite(t,LOW);
19     float dur=pulseIn(e,HIGH);
20     float dis=(dur*0.0343)/2;
21     Serial.print("Distance is: ");
22     Serial.println(dis);
23
24     //LED ON
25     if(dis>=100)
26     {
27         digitalWrite(8,HIGH);
28         digitalWrite(7,HIGH);
29     }
30
31     //Buzzer For ultrasonic Sensor
32     if(dis>=100)
```

```
33     {
34     for(int i=0; i<=30000; i=i+10)
35     {
36     tone(12,i);
37     delay(1000);
38     noTone(12);
39     delay(1000);
40     }
41     }
42
43
44
45
46     //Temperate Sensor
47     double a= analogRead(A0);
48     double t((((a/1024)*5)-0.5)*100;
49     Serial.print("Temp Value: ");
50     Serial.println(t);
51     delay(1000);
52
53
54     //LED ON
55     if(t>=100)
56     {
57         digitalWrite(8,HIGH);
58         digitalWrite(7,HIGH);
59     }
60
61     //Buzzer for Temperature Sensor
62     if(t>=100)
63     {
64     for(int i=0; i<=30000; i=i+10)
65     {
```

```
66     tone(12,i);
67     delay(1000);
68     noTone(12);
69     delay(1000);
70 }
71 }
72
73     //LED OFF
74     if(t<100)
75     {
76         digitalWrite(8,LOW);
77         digitalWrite(7,LOW);
78     }
79 }
```