```
int t=2;
int e=3;
Void setup()
{
  Serial.begin(9600);
  pinMode(t,OUTPUT);
  pinMode(e,INPUT);
  pinMode(12,OUTPUT);
}

Void loop()
{
  //ultrasonic sensor
  digitalWrite(t,LOW);
  digitalWrite(t,HIGH);
  delayMicroseconds(10);
  digitalWrite(t,LOW);
  float dur=pulseIn(e,HIGH);
  float dis=(dur*0.0343)/2;
  Serial.print(“Distance is: “);
  Serial.println(dis);

    //LED ON
  If(dis>=100)
  {
    digitalWrite(8,HIGH);
    digitalWrite(7,HIGH);
  }
```

```
//Buzzer For ultrasonic Sensor
If(dis>=100)
{
For(int i=0; i<=30000; i=i+10)
{
Tone(12,i);
Delay(1000);
noTone(12);
delay(1000);
}
}
```

```
  //Temperate Sensor
Double a= analogRead(A0);
Double t=(((a/1024)*5)-0.5)*100;
Serial.print(“Temp Value: “);
Serial.println(t);
Delay(1000);
```

```
//LED ON
If(t>=100)
{
  digitalWrite(8,HIGH);
  digitalWrite(7,HIGH);
}
```

```
 //Buzzer for Temperature Sensor
 If(t>=200)
 {
 For(int i=0; i<=20000; i=i+10)
 {
 Tone(12,i);
 Delay(1000);
 noTone(12);
 delay(3000);
 }
 }

  //LED OFF
 If(t<100)
 {
   digitalWrite(8,LOW);
   digitalWrite(7,LOW);
 }
}
```