```arduino
int t=2;
int e=3;
void setup()
{
 Serial.begin(9600);
 pinMode(t,OUTPUT);
 pinMode(e,INPUT);
 pinMode(12,OUTPUT);
 pinMode(11,OUTPUT);


}


void loop()
{
 //ultrasonic sensor
 digitalWrite(t,LOW);
 digitalWrite(t,HIGH);
 delayMicroseconds(10);
 digitalWrite(t,LOW);
 float dur=pulseIn(e,HIGH);
 float dis=(dur*0.0456)/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)
   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>=100)

   {

    for(int i=0; i<=30000; i=i+10)

    {

    tone(11,i);
```

```
  delay(1000);

 noTone(11);

 delay(1000);

 }

}

//LED OFF

if(t<=100)

{


digitalWrite(8,LOW);

digitalWrite(7,LOW);

 }

 }
```