```cpp
// C++ code
//
Int t=3;
Int e=4;

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(9,HIGH);
```

```
  digitalWrite(8,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>=100)

{

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

{

Tone(12,i);

Delay(1000);

noTone(12);

delay(1000);

}

}


 //LED OFF

If(t<100)

{

 digitalWrite(9,LOW);

 digitalWrite(8,LOW);

}

}
```