```
// C++ code
//
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<=20000; i=i+10)
 {
 tone(12,i);
 delay(2000);
 noTone(12);
 delay(2000);
 }
 }
//Temperate Sensor
 double a= analogRead(A0);
 double t=(((a/1024)*5)-0.5)*100;
 Serial.print("Temp Value: ");
 Serial.println(t);
 delay(2000);
/LED ON
 if(t>=100)
 {
  digitalWrite(8,HIGH);
  digitalWrite(7,HIGH);
 }
//Buzzer for Temperature Sensor
 if(t>=100)
 {
 for(int i=0; i<=20000; i=i+10)
 {
 tone(12,i);
 delay(2000);
```

```
  noTone(12);
  delay(2000);
  }
  }
//LED OFF
  if(t<100)
  {
    digitalWrite(8,LOW);
    digitalWrite(7,LOW);
  }
}
```