

```

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>=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(8,LOW);
  digitalWrite(7,LOW);
}
}
```

