



CODING:

```
int v=2;
```

```
int s=3;
```

```
void setup()
```

```
{
```

```
  Serial.begin(9600);
```

```
  pinMode(v,OUTPUT);
```

```
  pinMode(s,INPUT);
```

```
  pinMode(12,OUTPUT);
```

```
}
```

```
void loop()
```

```
{
```

```
  //ultrasonic sensor
```

```
  digitalWrite(v,LOW);
```

```
  digitalWrite(v,HIGH);
```

```
delayMicroseconds(10);  
digitalWrite(v,LOW);  
float dur=pulseIn(s,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 b= analogRead(A0);  
double v=((b/1024)*5)-0.5)*100;  
Serial.print("Temp Value: ");  
Serial.println(v);  
delay(1000);
```

```
//LED ON
```

```
if(v>=100)
{
    digitalWrite(8,HIGH);
    digitalWrite(7,HIGH);
}
```

//Buzzer for Temperature Sensor

```
if(v>=100)
{
    for(int i=0; i<=30000; i=i+10)
    {
        tone(12,i);
        delay(1000);
        noTone(12);
        delay(1000);
    }
}
```

//LED OFF

```
if(v<100)
{
    digitalWrite(8,LOW);
    digitalWrite(7,LOW);
}
}
```