```
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);

    }


}
```