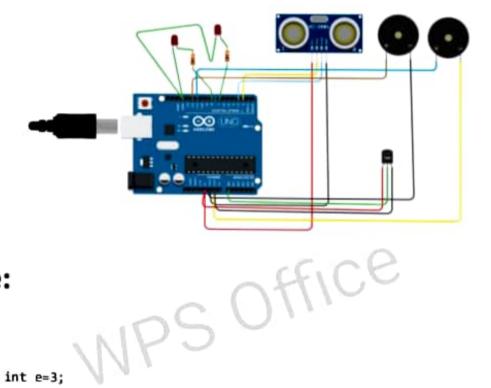
Circuit diagram:



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<=30000; i=i+10)
                  s office
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);
 }
}
```