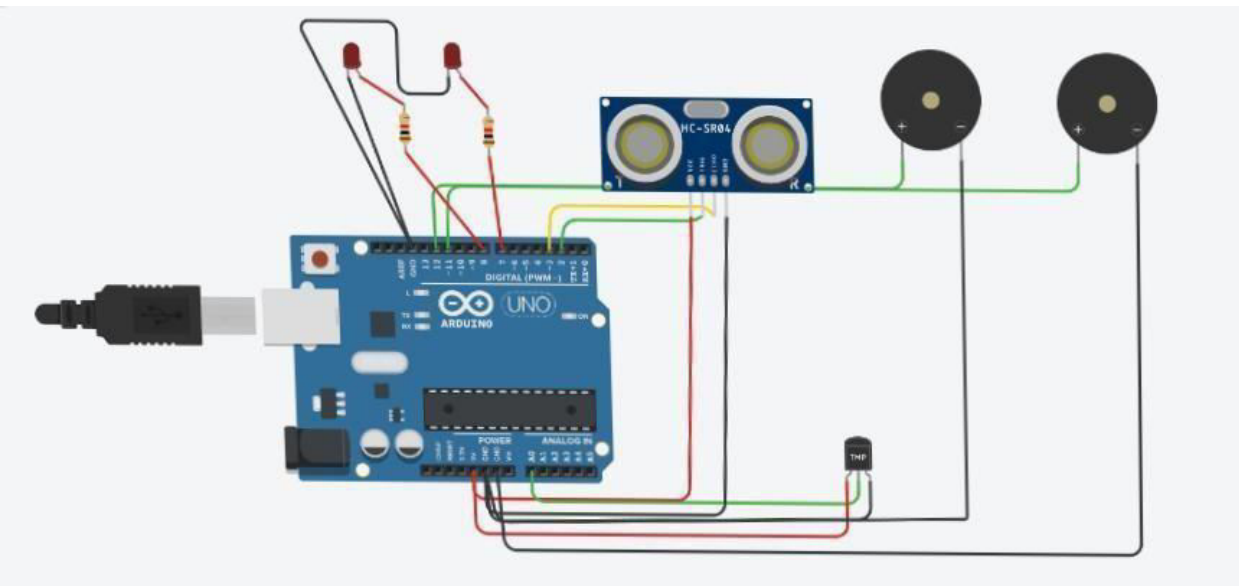Ragavi.K

960219106106

CIRCUIT DIAGRAM:



SOURCE 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)
 {
 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);

  }

 }
```

THINKERCAD LINK