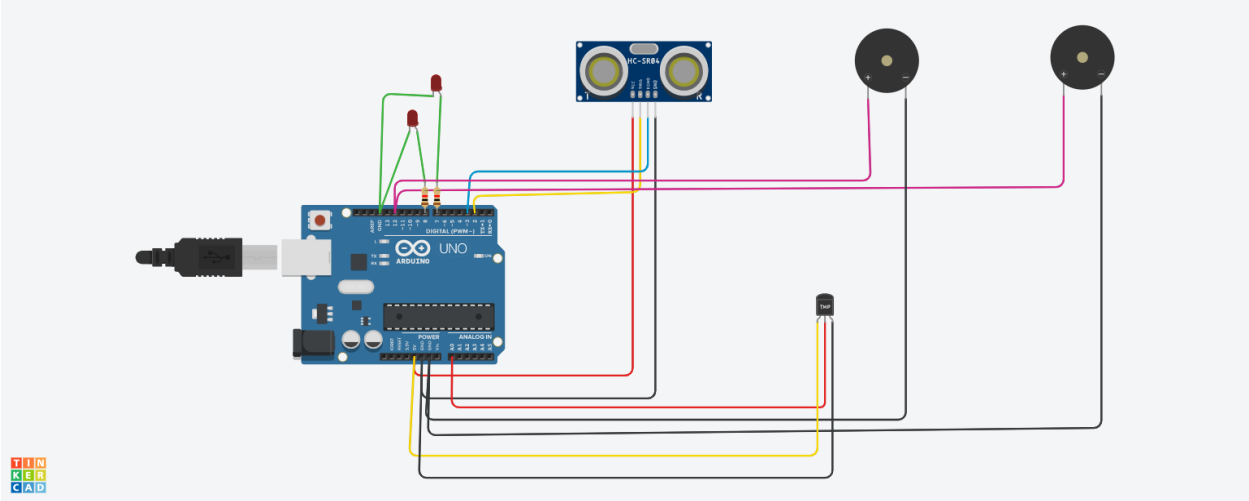
CIRCUIT DIAGRAM:



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);
  }
 }
```