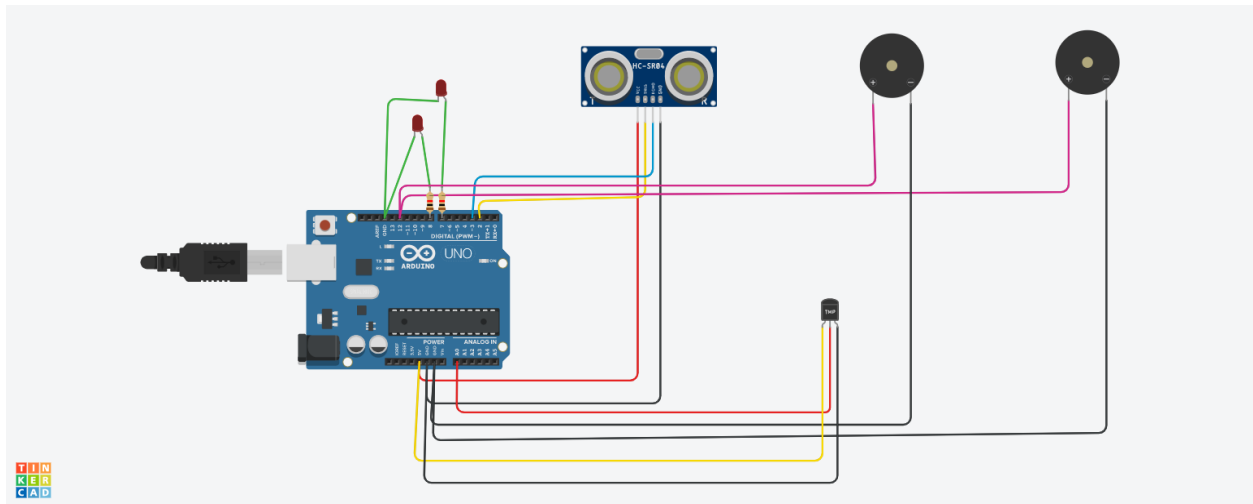


## CIRCUIT DIAGRAM:



## 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);  
}  
}
```