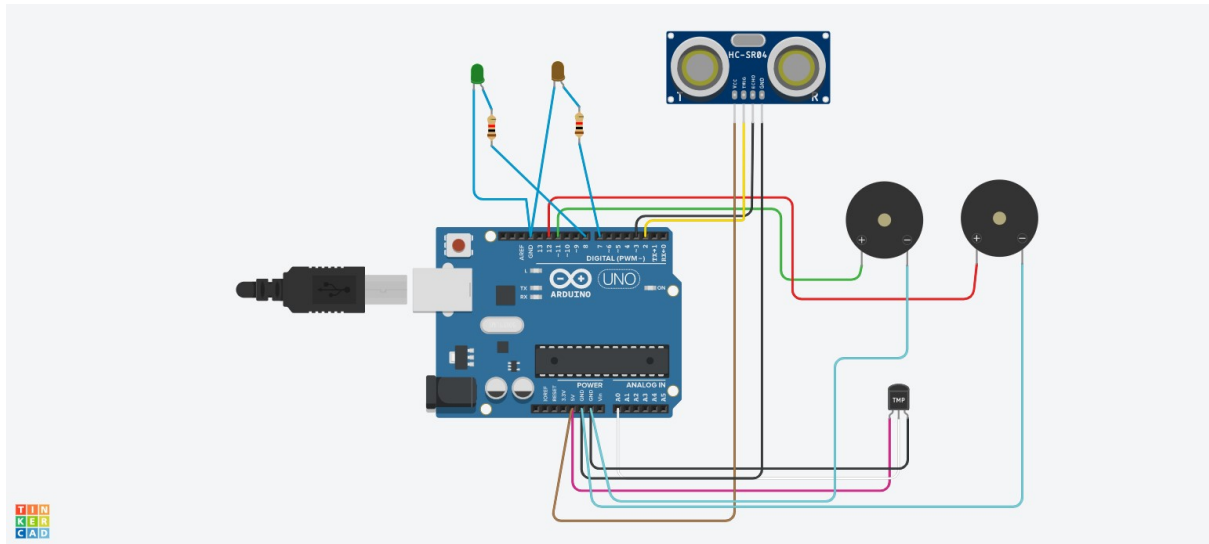


## ASSIGNMENT – 1

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## 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);
```