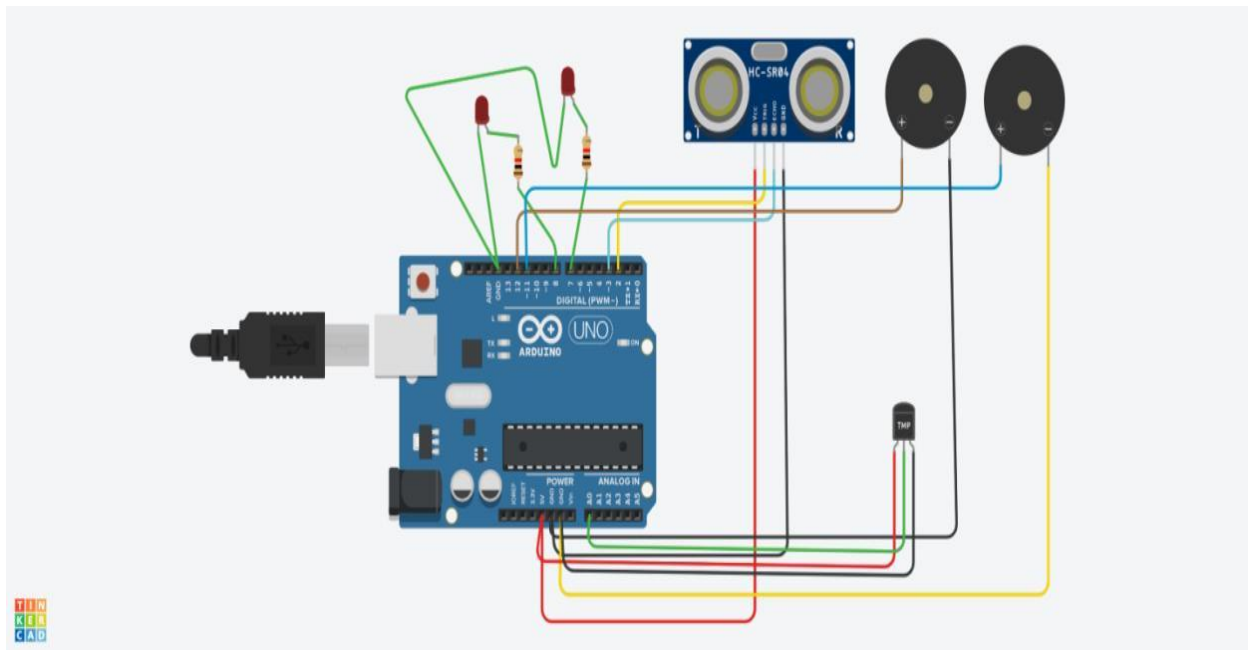


ASSIGNMENT 1

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;  
    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,LOW);

    digitalWrite(7,LOW);

}

}

```