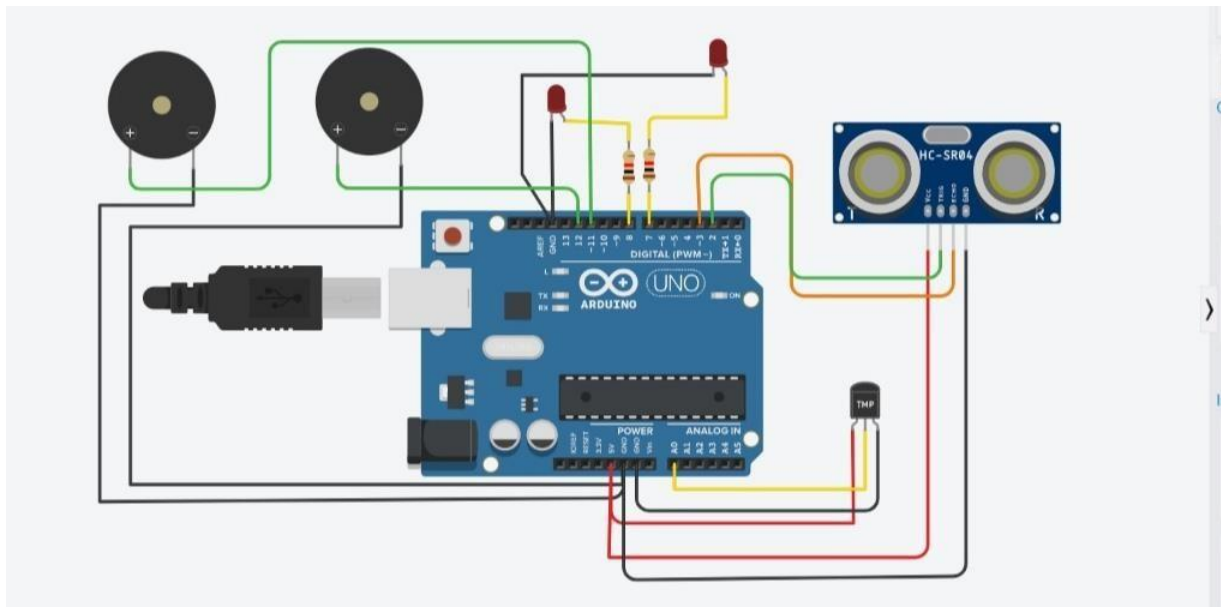


Assignment Date	21 September 2022
Student Name	C. Nivetha
Student Roll Number	960219104073
Maximum Marks	2 Marks

CIRCUIT DIAGRAM:



SOURCE CODE:

```
// C++ code
//
int trig=2; int
echo=3;

void setup()
```

```
{  
  Serial.begin(9600);  
  pinMode(trig,OUTPUT);  
  pinMode(echo,INPUT);  
  pinMode(12,OUTPUT);  
}  
  
void loop() {  
  //ultrasonic sensor  
  digitalWrite(trig,LOW);  
  digitalWrite(trig,HIGH);  
  delayMicroseconds(10);  
  digitalWrite(trig,LOW); float  
  dur=pulseIn(echo,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  
trig=(((a/1024)*5)-0.5)*100;  
  Serial.print("Temp Value: ");  
Serial.println(trig);  
delay(1000);
```

```
//LED ON
if(trig>=100)
{
    digitalWrite(8,HIGH);
digitalWrite(7,HIGH);
}

//Buzzer for Temperature Sensor
if(trig>=100) { for(int i=0;
i<=30000; i=i+10)
{
    tone(12,i);
    delay(1000)
;
    noTone(12)
;
    delay(1000);
}
}
```

OUTPUT:

