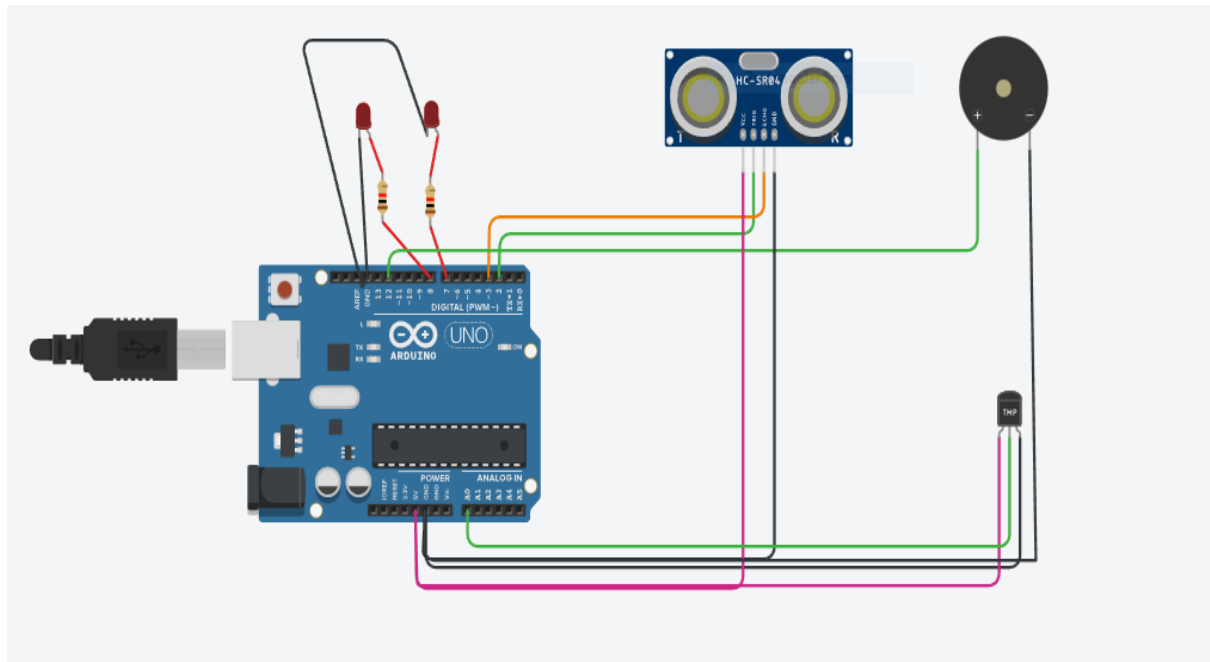


NALAIYA THIRAN
INTERNET OF THINGS
ASSIGNMENT 1



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);  
}  
}
```