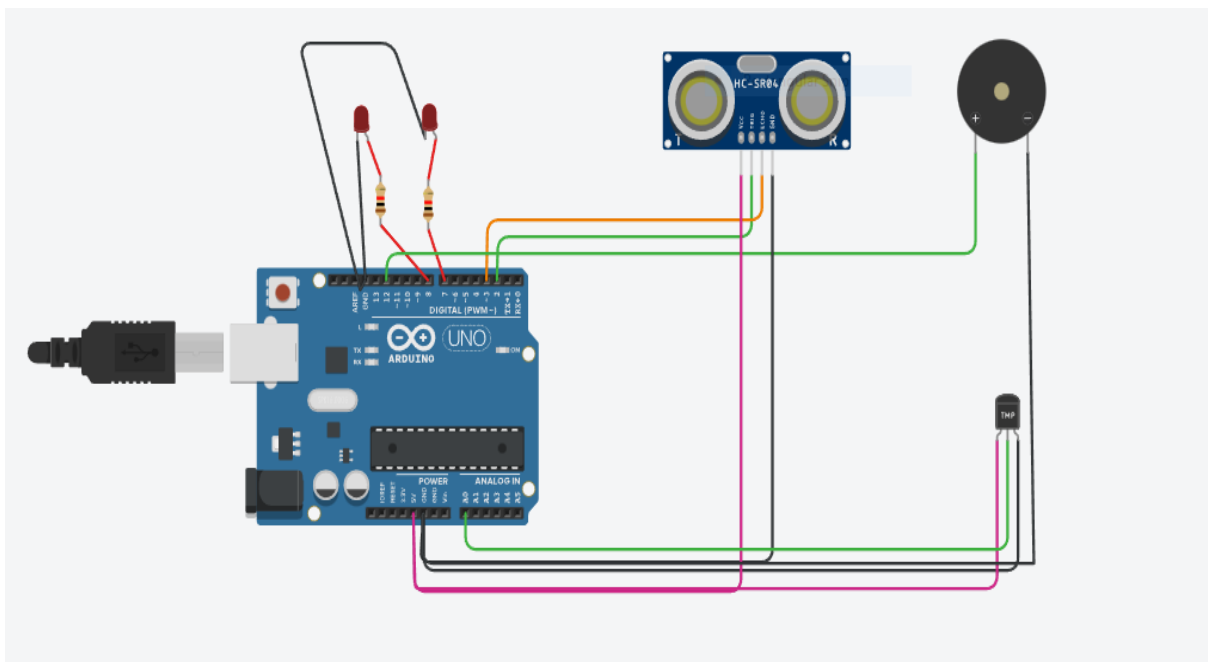NALAIYA THIRAN

INTERNET OF THIHGS

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);

}

}
```