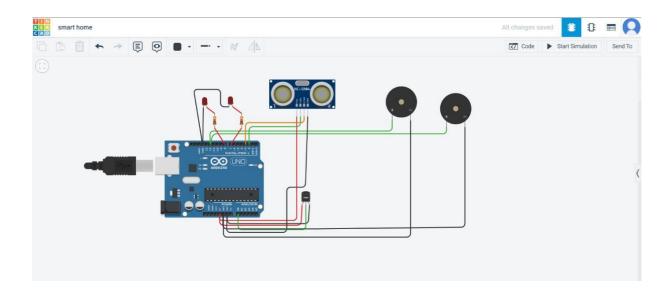
## **ASSIGNMENT-1**

Date	17-09-2022
Team ID	PNT2022TMID24453
Project Name	Gas leakage monitoring and alerting system
Maximum Marks	2 Marks

**NAME:** POLAMREDDY DHANUSH

**ASSIGNMENT:** Build a smart home using two sensors, led, buzzer in a circuit



## **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);
}
}
```