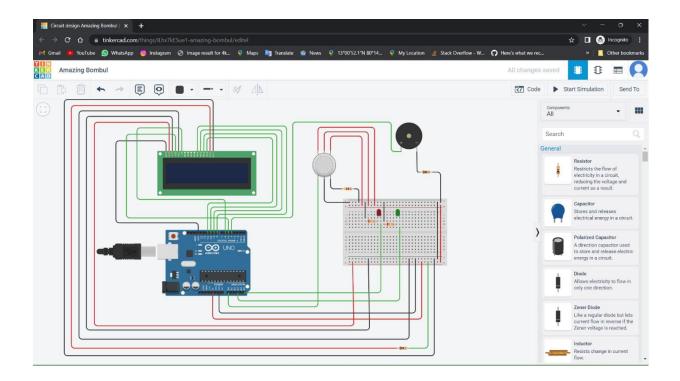
## SPRINT-I SIMULATON CREATION

Date	29 <sup>th</sup> OCTOBER 2022
Team ID	PNT2022TMID29330
Project Name	Gas Leakage Monitoring and Alerting System

## **Connect Sensor with Python Code:**



## CODE:

```
#include <LiquidCrystal.h>
LiquidCrystal lcd(5,6,8,9,10,11);
int redled = A5;
int greenled = A3;
int buzzer = 4;
int sensor = A0;
int sensorThresh = 400;
void setup()
pinMode(redled, OUTPUT);
pinMode(greenled,OUTPUT);
pinMode(buzzer,OUTPUT);
pinMode(sensor,INPUT);
Serial.begin(9600);
lcd.begin(16,2);
void loop()
 int analogValue = analogRead(sensor);
 Serial.println(analogValue);
 if(analogValue>sensorThresh)
  digitalWrite(redled,HIGH);
  digitalWrite(greenled,LOW);
  tone(buzzer,1000,10000);
  lcd.clear();
  lcd.setCursor(0,1);
  lcd.print("ALERT");
  Serial.print("ALERT");
```

```
delay(1000);
  lcd.clear();
  lcd.setCursor(0,1);
  lcd.print("EVACUATE");
  Serial.println(" -- EVACUATE");
  delay(1000);
 else
  digitalWrite(greenled,HIGH);
  digitalWrite(redled,LOW);
  noTone(buzzer);
  lcd.clear();
  lcd.setCursor(0,0);
  lcd.print("SAFE");
  Serial.print("SAFE");
  delay(1000);
  lcd.clear();
  lcd.setCursor(0,1);
  lcd.print("ALL CLEAR");
  Serial.println(" -- ALL CLEAR");
  delay(1000);
 }
}
```

## **OUTPUT:**

