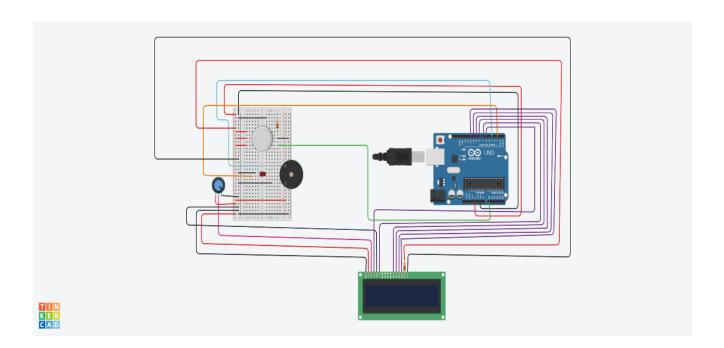
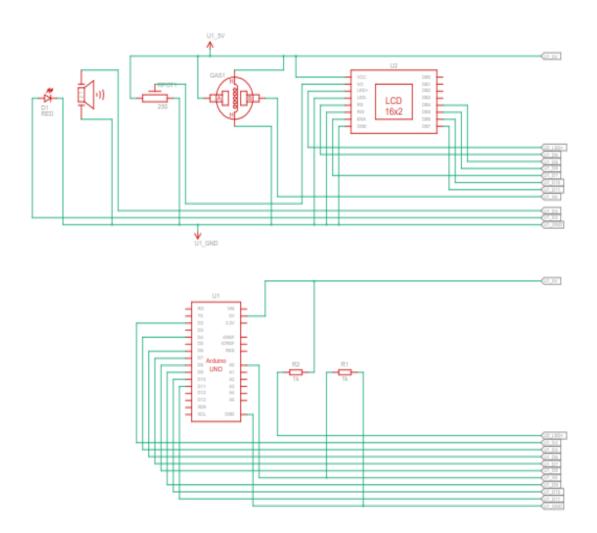
PROJECT DEVELOPMENT PHASE SPRINT-1

DATE	10 November 2022
TEAM ID	PNT2022TMID35489
TITLE	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

CIRCUIT:



SCHEMATIC DIAGRAM:



CODE:

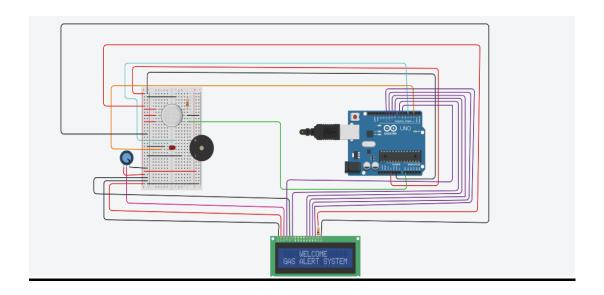
```
#include <LiquidCrystal.h>
LiquidCrystal lcd(6, 7, 8, 9, 10, 11);
float gasPin = A0;
float gasLevel;
int ledPin = 2;
int buzzPin = 4;
void setup(){
 pinMode(ledPin, OUTPUT);
 pinMode(gasPin,INPUT);
 Serial.begin(9600);
 lcd.begin(16, 2);
 lcd.setCursor(0,0);
 lcd.print(" WELCOME ");
 lcd.setCursor(0,2);
 lcd.print("GAS ALERT SYSTEM");
 delay(1000);
 lcd.clear();
}
void loop(){
gasLevel = analogRead(gasPin);
 gasDetected(gasLevel);
 buzzer(gasLevel);
}
```

```
void gasDetected(float gasLevel){
 if(gasLevel >= 250){
  digitalWrite(buzzPin,HIGH);
  digitalWrite(ledPin,HIGH);
  lcd.setCursor(0,0);
  lcd.print(" GAS:");
  lcd.print(gasLevel);
  lcd.setCursor(0,2);
  lcd.print("
               ALERT
                          ");
  delay(1000);
  lcd.clear();
 }
else{
  digitalWrite(ledPin,LOW);
  digitalWrite(buzzPin,LOW);
  lcd.setCursor(0,0);
  lcd.print(" GAS:");
  lcd.print(gasLevel);
  lcd.setCursor(0,2);
  lcd.print("
                         ");
                SAFE
  delay(1000);
  lcd.clear();
```

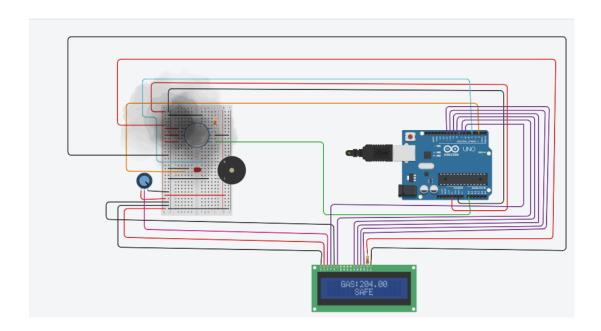
```
void buzzer(float gasLevel){
if(gasLevel>=250)
    {
    for(int i=0; i<=30; i=i+10)
    {
      tone(4,i);
      delay(400);
      noTone(4);
      delay(400);
    }
    }
}</pre>
```

OUTPUT:

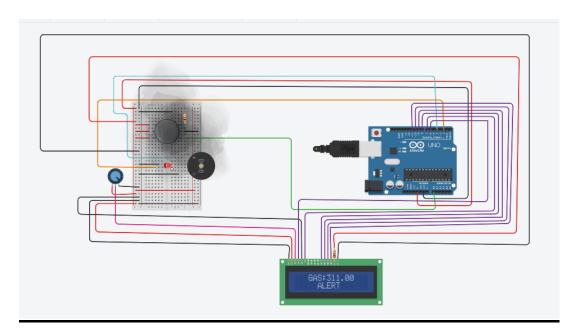
1.INITIAL SCREEN:



2.WHEN THE GAS LEVEL IS LESS THAN 250



3.WHEN THE GAS LEVEL IS MORE THAN 250:



TINKER CAD LINK:

 $\underline{https://www.tinkercad.com/things/i142DB6zDXB-frantic-maimu/editel?tenant=circuits}$

DEMO LINK:

 $\frac{https://drive.google.com/drive/folders/1KK4blSqflC2P_tRCt0yySBf8gn-I2vsp?usp=share_link}{}$