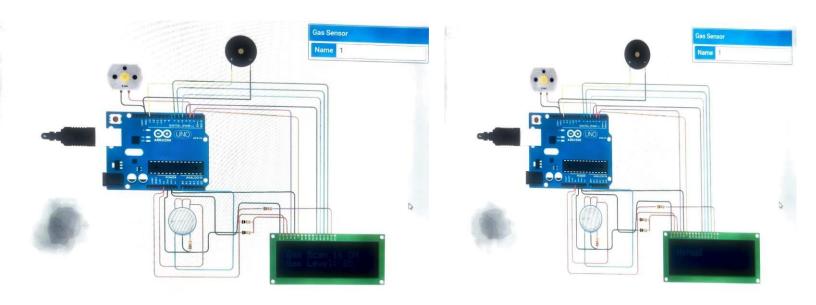
Project development phase Sprint 3

| Date | 12 November 2022 |
|--------------|---|
| Team ID | PNT2022TMID06950 |
| Project Name | Project – Gas Leakage Monitoring and Alerting |
| | System |

```
1 #include <LiquidCrystal.h>
   LiquidCrystal 1cd(2, 3, 4, 5, 6, 7);
   #include <SoftwareSerial.h>
   SoftwareSerial mySerial (9, 10);
   int gasValue = A0; // smoke / gas sensor connected with an
   int data = 0;
 9 int buzzer = 13;
10 int motorPin = 3;
   int buttonpin=12;
12 char msg;
16 void setup()
17 {
    pinMode (motorPin, OUTPUT);
    pinMode (buzzer, OUTPUT);
20 pinMode (buttonpin, INPUT);
21 randomSeed(analogRead(0));
22 mySerial.begin(9600); // Setting the baud rate of GSM Module
23 Serial.begin(9600); // Setting the baud rate of Serial Monit
24 lcd.begin(16,2);
25 pinMode (gasValue, INPUT);
26 lcd.print (" Gas Leakage ");
27 lcd.setCursor(0,1);
28 lcd.print (" Detector Alarm ");
29 delay(3000);
30 lcd.clear();
33 void loop()
  Serial Monitor
```

```
data = analogRead(gasValue);
   Serial.print("Gas Level: ");
   Serial.println(data);
   lcd.print ("Gas Scan is ON");
   lcd.setCursor(0,1);
   lcd.print("Gas Level: ");
   lcd.print(data);
   delay(1000);
44
45
   if ( data > 100) //
47
     digitalWrite (motorPin, HIGH);
48
     digitalWrite(buzzer, HIGH);
49
   SendMessage();
   Serial.print("Gas Leakage is Detected");
   lcd.clear();
52 lcd.setCursor(0,0);
53 lcd.print("WARNING: Gas Level Exceed");
54 lcd.setCursor(0,1);
   lcd.print("Sending SMS");
   delay(1000);
60 else
61 {
     digitalWrite (motorPin, LOW);
     digitalWrite(buzzer, LOW);
   Serial.print("No Leakage is Dected");
   lcd.clear();
66 lcd.setCursor(0,0);
67 lcd.print("Normal");
69 delay(1000);
```

```
lcd.setCursor(0,1);
  lcd.print("Sending SMS");
  delay(1000);
  else
61 {
     digitalWrite (motorPin, LOW);
     digitalWrite (buzzer, LOW);
   Serial.print("No Leakage is Dected");
  lcd.clear();
66 lcd.setCursor(0,0);
   lcd.print("Normal");
   delay(1000);
   lcd.clear();
   void SendMessage()
    Serial.println("I am in send");
    mySerial.println("AT+CMGF=1"); //Sets the GSM Module in Text
    delay(1000); // Delay of 1000 milli seconds or 1 second
   mySerial.println("AT+CMGS=\"+916374616361\"\r"); // Replace x
   delay(1000);
    mySerial.println("Excess Gas Detected.");// The SMS text you
    mySerial.println(data);
    delay(1000);
    mySerial.println((char)26);// ASCII code of CTRL+Z
    delay(1000);
   Serial Monitor
```





No Leakage is DectedGas Level: 85 No Leakage is DectedGas Level: 85

No Leakage is DectedGas Level: 85

No Leakage is DectedGas Level: 85

No Leakage is DectedGas Level: 85

No Leakage is DectedGas Level: 92

No Leakage is DectedGas Level: 134

I am in send

Send Clear