# PROJECT DEVELOPMENT PHASE
## SPRINT 1

| Date | 29 October 2022 |
| --- | --- |
| Team ID | PNT2022TMID42181 |
| Project Name | Gas Leakage Monitoring And Alerting  System |

```
#include <LiquidCrystal.h>

LiquidCrystal lcd(5,6,8,9,10,11);

int redled = 2; int greenled = 3;

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);

}
```

```cpp
void loop()
{
  int analogValue = analogRead(sensor);
Serial.print(analogValue);   if(analogValue>sensorThresh)
 {
   digitalWrite(redled,HIGH);
digitalWrite(greenled,LOW);
tone(buzzer,1000,10000);
   lcd.clear();
lcd.setCursor(0,1);
lcd.print("ALERT");
delay(1000);
   lcd.clear();
lcd.setCursor(0,1);
lcd.print("EVALUATE");
delay(1000);
 }
 else
 {
```

```
    digitalWrite(greenled,HIGH);

digitalWrite(redled,LOW);

noTone(buzzer);

    lcd.clear();

lcd.setCursor(0,0);

lcd.print("SAFE");

delay(1000);

    lcd.clear();

lcd.setCursor(0,1);

lcd.print("ALL CLEAR");

delay(1000);

 }

    }
```