

## Project Development Phase

### Sprint - 1

Date	18 NOV 2022
Team ID	PNT2022TMID47518
Project Name	Project – Gas Leakage Monitoring and Alerting System for Industries.

### **PROGRAM :**

```
#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);
}
```

```
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("EVACUATE");

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);
}
}
```