## Design Development Phase Sprint-2

| Date         | 18 NOVEMBER 2022                           |
|--------------|--|
| Team ID      | PNT2022TMID11027                           |
| Project Name | Gas Leakage Monitoring and Alerting System |

```
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,HI
 GH);
 digitalWrite(greenled,L
 OW);
tone(buzzer,1000,1000
0); lcd.clear();
 lcd.setCursor( 0,1);
 lcd.print("ALE RT");
 delay(1000); lcd.clear();
 lcd.setCursor(0,1)
           ;
           lcd.print("EVACU
           ATE");
           delay(1000);
          }
          Else
          {
           digitalWrite(greenled,
           HIGH);
           digitalWrite(redled,L
           0 W);
           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);
}
```