

Project Development Phase

Sprint - 2

Team ID	PNT2022TMID21380
Project Name	Project – Gas leakage Monitoring and Alerting System
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Sprint – 2:

Coding:

```
#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);  
}  
  
}
```