

# PROJECT DEVELOPMENT PHASE

## Sprint 1

BATCH	B12-6A2E
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PROJECT	Gas Leakage Monitoring & Alerting System for Industries

## **CODE:**

```
#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);  
}
```