

SPRINT 4

Team ID	PNT2022TMID27922
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Project Name	Gas Leakage Monitoring and Alerting System

```
#include <LiquidCrystal.h>
LiquidCrystal lcd(7, 6, 5, 4, 3, 2);
#include <SoftwareSerial.h>
SoftwareSerial mySerial(9, 10);
int gasValue = A0; // smoke / gas sensor connected with analog pin
A1 of the arduino / mega.
int data = 0;
void setup()
{
  randomSeed(analogRead(0));
  mySerial.begin(9600); // Setting the baud rate of GSM Module
  Serial.begin(9600); // Setting the baud rate of Serial Monitor
  (Arduino)
  lcd.begin(16,2);
  pinMode(gasValue, INPUT);
  lcd.print (" Gas Leakage ");
  lcd.setCursor(0,1);
  lcd.print (" Detector Alarm ");
  delay(3000);
  lcd.clear();
}
void loop()
{
  data = analogRead(gasValue);
  Serial.print("Gas Level: ");
  Serial.println(data);
  lcd.print ("Gas Scan is ON");
```

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lcd.setCursor(0,1);
lcd.print("Gas Level: ");
lcd.print(data);
delay(1000);
if ( data > 500)
{
SendMessage();
Serial.print("Gas detect alarm");
lcd.clear();
lcd.setCursor(0,0);
lcd.print("Gas Level Exceed");
lcd.setCursor(0,1);
lcd.print("SMS Sent");
delay(1000);
}
else
{
Serial.print("Gas Level Low");
lcd.clear();
lcd.setCursor(0,0);
lcd.print("Gas Level Normal");
delay(1000);
}
lcd.clear();
}void SendMessage()
{
Serial.println("I am in send");
mySerial.println("AT+CMGF=1"); //Sets the GSM Module in Text
Mode
delay(1000); // Delay of 1000 milli seconds or 1 second
mySerial.println("AT+CMGS=\"+91900xxxxxxx\"\\r"); // Replace x with
mobile number
delay(1000);

```

```
mySerial.println("Excess Gas Detected. Open Windows");// The SMS  
text you want to send  
delay(100);  
mySerial.println((char)26);// ASCII code of CTRL+Z  
delay(1000);}
```