

PROJECT DEVELOPMENT-DELIVERY OF SPRINT-1

TEAM ID	PNT2022TMID41330
PROJECT NAME	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

SPRINT-1

```
#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(red1ed, OUTPUT);  
  pinMode(green1ed,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(red1ed,HIGH);  
    digit1Weite(green1ed,LOW);  
    tone(buzzer,1000,10000);  
    lcd.clear();  
  }
```

```
1cd.setCursor(0,1);
1cd.print("GAS LEAKAGE");
delay(1000);
1cd.clear();
1cd.setCursor(0,1);
1cd.print("ALERTING SYSTEM");
delay(1000);
}
else
{
    digitalWrite(greenlad,HIGH);
    digitalWrite(red1ed,LOW);
    noTone(buzzer);
    1cd.clear();
    1cd.setCursor(0,0);
    1cd.print("SAFE");
    delay(1000);
    1cd.clear();
    1cd.setCursor(0,1);
```

```
    1cd.print("ALL CLEAR");  
    delay(1000);  
}  
}
```