

Gas Leakage monitoring & Alerting system for Industries

FINAL CODE:

```
#include <LiquidCrystal.h>

LiquidCrystal lcd(6,7,8,9,12,13);

float tempsensor=A1;

void setup()
{
  pinMode(2,OUTPUT);
  pinMode(4,OUTPUT);
  pinMode(10,OUTPUT);
  pinMode(3,OUTPUT);
  pinMode(A0,INPUT);
  pinMode(A1,INPUT);
  Serial.begin(9600);
  lcd.begin(16,2);
}

void loop()
{
```

```
{  
float temp=analogRead(tempsensor);  
Serial.println(temp);  
if(temp>150)  
digitalWrite(3,HIGH);  
else  
digitalWrite(3,LOW);  
}  
  
int analogValue = analogRead(A0);  
Serial.print(analogValue);  
if(analogValue>400)  
{  
digitalWrite(4,HIGH);  
digitalWrite(2,LOW);  
tone(10,10000,100000);  
lcd.clear();  
lcd.setCursor(0,1);  
lcd.print("WARNING");  
delay(1000);  
lcd.clear();  
lcd.setCursor(0,1);  
lcd.print("GET OUT");
```

```
delay(1000);

}

else
{
digitalWrite(2,HIGH);
digitalWrite(4,LOW);
noTone(10);
lcd.clear();
lcd.setCursor(0,1);
lcd.print("EVERYTHING IS CLEAR");
delay(1000);
lcd.clear();
lcd.setCursor(0,1);
lcd.print("SAFE NOW");
delay(1000);
}
}
```