

DELIVERY OF SPRINT

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**PROJECT NAME: IOT BASED GADGET FOR GAS
LEAKAGE AND MONITORING SYSTEM**

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);  
}  
  
}
```