

PROJECT DEVELOPMENT PHASE

DELIVERY OF SPRINT-4

Date	16 Nov 2022
Team ID	PNT2022TMID00837
Project Name	Industry - specific intelligent management system

Program:

```
#include <Wire.h>
#include <LiquidCrystal_I2C.h>
LiquidCrystal_I2C lcd(0x27,16,2);
int val = 0 ;
int temp=0,i=0;
char str[15];
void setup()
{
    Serial.begin(9600);
    lcd.init();
    lcd.backlight();
    pinMode(4,INPUT); // Flame Sensor
    pinMode(5,OUTPUT); // Led
    pinMode(6,OUTPUT); // Buzzer
    lcd.setCursor(0,0);
    lcd.print(" GSM Base Fire      ");
    lcd.setCursor(0,1);
    lcd.print("Security System ");
    delay(2000);
    lcd.clear();
    Serial.println("AT+CNMI=2,2,0,0,0");
    delay(500);
    Serial.println("AT+CMGF=1");
    delay(1000);
}
void loop()
{
    if(temp==1)
    {
        check();
        temp=0;
        i=0;
        delay(1000);
    }
    val = digitalRead(4); // pir sensor output pin connected
```

```

    Serial.println(val); // see the value in serial monitor in Arduino
IDE
    delay(100);
    if(val == 0 )
    {
        Serial.print("\r");
        delay(1000);
        Serial.print("AT+CMGF=1\r");
        digitalWrite( 5,HIGH); // led
        digitalWrite( 6,HIGH); // Buzzer
        lcd.setCursor(0,0);
        lcd.print(" Fire Detected      ");
        lcd.setCursor(0,1);
        lcd.print("    Be Safe      ");
        delay(1000);
        Serial.print("AT+CMGS=\"+919751799717\"\r");
        delay(1000);
        //The text of the message to be sent.
        Serial.print("Fire Alert");
        delay(1000);
        Serial.write(0x1A);
    }
    else
    {
        digitalWrite( 5,LOW); // led
        digitalWrite( 6,LOW); // Buzzer
        lcd.setCursor(0,0);
        lcd.print("  FIRE NOT      ");
        lcd.setCursor(0,1);
        lcd.print("  DETECTED      ");
    }
}
}
void serialEvent()
{
}
void check()
{
}

```