PROJECT DEVELOPMENT PHASE

DELIVERY OF SPRINT-4

Date	**16 Nov 2022**
Team ID	**PNT2022TMID14391**
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 mpnitor 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()
  {
   }
```