## PROJECT DEVELOPMENT PHASE DELIVERY OF SPRINT-1

Assignment Date	16 November 2022
Team Id	PNT2022TMID34762

```
Date 27 October 2022
Team ID PNT2022TMID46732
Project Name Industry Specific Intelligent Fire Management
System
#include <WiFi.h>
#include <Wire.h>
#include <SPI.h>
#include "ThingSpeak.h"
#include <WiFiClient.h>
unsigned long myChannelNumber = 2;
const char * myWriteAPIKey = "25V40ZAPI6KIZFGY";
int LED PIN = 32; // the current reading from the input pin
int BUZZER PIN= 12;
const int mq2 = 4;
int value = 0;
//Flame
int flame sensor pin = 10;// initializing pin 10 as the sensor digital output
pin int flame pin = HIGH; // current state of sensor
char ssid[] = "Jenito";
char pass[] = "Jose Jenito";
WiFiClient client;
#define PIN LM35 39
#define ADC VREF mV 3300.0
#define ADC RESOLUTION 4096.0
void setup()
```

```
Serial.begin(115200);
Serial.print("Connecting to ");
Serial.println(ssid);
WiFi.begin(ssid, pass);
int wifi ctr = 0;
while (WiFi.status() != WL CONNECTED)
delay(1000);
Serial.print(".");
Serial.println("WiFi connected");
ThingSpeak.begin(client);
pinMode(LED PIN, OUTPUT);
pinMode(mq2, INPUT); pinMode (
flame sensor pin, INPUT); // declaring
sensor pin as input pin for Arduino
pinMode(BUZZER PIN, OUTPUT);
void temperature()
int adcVal = analogRead(PIN LM35);
float milliVolt = adcVal * (ADC VREF mV /
ADC RESOLUTION); float tempC = milliVolt / 10;
Serial.print("Temperature: ");
Serial.print(tempC);
Serial.print("°C");
if(tempC > 60)
Serial.println("Alert");
digitalWrite(BUZZER PIN, HIGH); // turn on
}
else
digitalWrite(BUZZER PIN, LOW); // turn on
```

```
int x = ThingSpeak.writeField(myChannelNumber, 1, tempC, myWriteAPIKey);
void GasSensors()
//mq2
int gassensorAnalogmq2 = analogRead(mq2);
Serial.print("mq2 Gas Sensor: ");
Serial.print(gassensorAnalogmq2);
Serial.print("\t");
Serial.print("\t");
Serial.print("\t");
if (gassensorAnalogmq2 > 1500)
Serial.println("mq2Gas");
Serial.println("Alert");
}
else
Serial.println("No mq2Gas");
int a = ThingSpeak.writeField(myChannelNumber,4, gassensorAnalogmq2,
myWriteAPIKey); }
void flamesensor()
flame pin = digitalRead (flame sensor pin); // reading from the
sensor if (flame pin == LOW) // applying condition
Serial.println ("ALERT: FLAME DETECTED");
digitalWrite (buz pin, HIGH); // if state is high, then turn high the
BUZZER }
else
Serial.println ("NO FLAME DETECTED"); digitalWrite (
buz pin, LOW); // otherwise turn it low
```

```
void loop() {
temperature(
)
;
GasSensors()
;
flamesensor()
;
```