Project Development - Delivery Of Sprint-1

```
int LED PIN = 2; // the current reading from the input pin and
int Motor PIN= 12;//Pin for ventilation fan
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
#define PIN LM35 39
#define ADC_VREF_mV 3300.0
#define ADC RESOLUTION 4096.0
void setup()
    Serial.begin(115200);
    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(Motor PIN, HIGH); // turn on
    }
    else
    {
        digitalWrite(Motor PIN, LOW); // turn off
void GasSensors()
```

```
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");//message to user
        Serial.println("Alert");
    }
    else
        Serial.println("No mq2Gas");//message to user
void flamesensor()
    flame pin = digitalRead ( flame sensor pin ) ; // reading from the
sensor
    if (flame pin == LOW ) // applying condition
        Serial.println ( " ALERT: FLAME DETECTED" ) ;
        \operatorname{digitalWrite} ( Motor PIN , HIGH ) ;// if state is high, then turn
high the BUZZER
   }
    else
        Serial.println ( " NO FLAME DETECTED " ) ;
        digitalWrite ( Motor PIN , LOW ) ; // otherwise turn it low
    }
void loop()
temperature();
GasSensors();
flamesensor();
```