Hazardous area monitoring for industrial plant

Project development phase

Delivery of sprint-1

Date	10 November 2022
Team ID	PNT2022TMID39386
Project Name	Hazardous area monitoring for industrial plant

Program:

```
#include <dht.h>

#define dht_apin A0                    // Analog Pin 0 is connected to
DHT sensor
#define mqt_apin A1                    // Analog Pin 1 is connected to
MQT 135 sensor
dht DHT;
int sensorValue;

void setup(){

  Serial.begin(9600);                  //Serial port to communicate with
Python code
  Serial1.begin(9600);                 //Serial port to communicate with
Wearable device through Bluetooth (HC-05)
  delay(500);                          //Delay to let system boot
}

void loop(){

   DHT.read11(dht_apin);               // read analog input pin
0(DHT11)
   sensorValue = analogRead(mqt_apin);          // read analog input pin
```

1(MQ135)

```
    //Send Humidity status to Python Code
    Serial.print("Current humidity = ");
    Serial.print(DHT.humidity);
    Serial.print("%  ");

    //Send Temperature status to Python Code
    Serial.print("temperature = ");
    Serial.print(DHT.temperature);
    Serial.println("C  ");

    //Send AirQuality sensor value to Python code
    Serial.print("AirQua=");
    Serial.print(sensorValue, DEC);
    Serial.println(" PPM");

    //Send signals to the Wearable
    Serial1.println("H T A");
    Serial1.println(DHT.humidity);
    Serial1.println(DHT.temperature);
    Serial1.println(sensorValue, DEC);

    delay(100);
}
```