

## PROJECT DEVELOPMENT PHASE SPRINT-1

<b>Team Id</b>	<b>PNT2022TMID46638</b>
<b>Assignment date</b>	<b>1 November 2022</b>
<b>Project Name</b>	<b>Hazardous area monitoring for industrial plant powered by IOT</b>
<b>Maximum Marks</b>	<b>4 Marks</b>

**CODE :**

**SENSOR BEACON**

```
#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);
```

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```
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); // wait 100 milliseconds for next reading

}
```