

PROJECT DEVELOPMENT PHASE SPRINT-1

Team Id	PNT2022TMID17322
Assignment date	1 November 2022
Project Name	Hazardous area monitoring for industrial plant powered by IOT
Maximum Marks	4 Marks

CODE :

SENSOR BEACON

```
#include <dht.h>
#define dht_apin A0    // Analog Pin 0 is connected to DHT sensor #define
                        // Analog Pin 1 is connected to MQT 135 sensor

mqt_apin A1
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

}
```