PROJECT DEVELOPMENT PHASE

SPRINT-1

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| **Date** | **9 NOVEMBER 2022** |
| **Team ID** | **PNT2022TMID26841** |
| **Project Name** | **Project - 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 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); // wait 100 milliseconds for next reading

}