PROJECT DEVELOPMENT PHASE
SPRINT-1

Date	1 NOVEMBER 2022
Team ID	PNT2022TMID42437
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
}
```