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| Date | 16 November 2022 |
| Team ID | PNT2022TMID15090 |
| Project Name | Hazardous Area Monitoring for Industrial Plant  Powered by IoT |
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#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;

intsensorValue;

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)

CodeSerial.print("Current humidity = "); //SendHumidity status to Python

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 }