

Team ID	PNT2022TMID52802
Project Name	Hazardous Area Monitoring for Industrial Plant powered by IoT
Maximum Marks	

CODE:

```
#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);
    Serial1.begin(9600);
    delay(500);
}

void loop(){

    DHT.read11(dht_apin);
    sensorValue = analogRead(mqt_apin);

    //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);
```