

TEAM ID	PNT2022TMID41953
TITLE	Hazardous Area Monitoring for Industrial Plant powered by IoT
DATE	12 <sup>th</sup> September 2022

## DEVELOP THE PYTHON SCRIPT

### CODE:

#IBM Watson IOT Platform

#pip install wiotp-sdk

import wiotp.sdk.device

import time

myConfig = {

    "identity": {

        "orgId": "alv43y",

        "typeId": "NodeMCU",

        "deviceId": "0515"

    },

    "auth": {

        "token": "622519106034"

    }

}

def myCommandCallback(cmd): print("Message received from IBM IoT

Platform: %s" % cmd.data['command']) m=cmd.data['command']

```
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None) client.connect()
```

```
while True:
```

```
    temp=random.randint(-20,125)
```

```
    hum=random.randint(0,100)    myData={'temperature':temp,
```

```
    'humidity':hum}
```

```
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
```

```
    print("Published data Successfully: %s", myData)
```

```
client.commandCallback = myCommandCallback
```

```
    time.sleep(2) client.disconnect()
```

## OUTPUT:



```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 16:07:46) [MSC v.1900 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:/Users/AMMU/AppData/Local/Programs/Python/Python36-32/python ss.py
2022-11-16 00:05:34,403 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:alv43y:NodeMCU:0615Published data Successfully: %s
({'temperature': 103, 'humidity': 49})
Published data Successfully: %s {'temperature': 28, 'humidity': 31}
Published data Successfully: %s {'temperature': 78, 'humidity': 80}
Published data Successfully: %s {'temperature': 95, 'humidity': 5}
Published data Successfully: %s {'temperature': 113, 'humidity': 11}
Published data Successfully: %s {'temperature': 63, 'humidity': 65}
Published data Successfully: %s {'temperature': 124, 'humidity': 58}
Published data Successfully: %s {'temperature': 28, 'humidity': 3}
Published data Successfully: %s {'temperature': 106, 'humidity': 36}
Published data Successfully: %s {'temperature': 12, 'humidity': 14}
```