

## **DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSCRIBE IBM IOT PLATFORM**

DATE	18 November 2022
TEAM ID	PNT2022TMID35489
TITLE	Gas Leakage Monitoring and Alerting System for Industries.

### **DEVELOP A PYTHON CODE:**

```
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random

myConfig = {
    "identity": {
        "orgId": "d4fpcb",
        "typeId": "abcde",
        "deviceId": "123456"
    },
    "auth": {
        "token": "1234567890"
    }
}

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:

    gas=random.randint(0,350)

    temp=random.randint(-20,125)

    hum=random.randint(0,100)

    pres=random.randint(0,100)

    myData={ 'Hazardous gas':gas,'temperature':temp,  
    'humidity':hum,'pressure':pres }

    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()