DEVELOP THE PYTHON CODE

PROJECT	**REAL TIME WATER QUALITY MONITORING AND CONTROL SYSTEM**
TEAM ID	**PNT2022TMID47600**

PYTHON CODE

IN CMD RUN pip install wiotp-sdk

```python
# -*- coding: utf-8 -*-
"""
reated on Fri Nov 11 07:57:51 2022


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"""


import random

import time


#IBM Watson IOT Platform

#pip install wiotp-sdk

import wiotp.sdk.device


myConfig = {

  "identity": {

    "orgId": "eqfbco",

    "typeId": "REAL_TIME_WATER_QUALITY_MONITORING",

    "deviceId":"PNT2022TMID47600"

  },

  "auth": {
```

```python
        "token": "T-axiVGwn*pPDJJ&bW"

    }

}


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)
    PH=random.randint(0,14)
    O2=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum, 'phvalue':PH, 'dissolved_oxygen':O2}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(5)
client.disconnect(5)
```