

DEVELOP THE PYTHON SCRIPT
PROJECT REAL TIME WATER QUALITY MONITORING AND CONTROL
SYSTEM
TEAM ID PNT2022TMID43884
DEVELOP THE PYTHON SCRIPT:

```
# -*- coding: utf-8 -*-
```

```
""" reated on Fri Nov 11 07:57:51
```

```
2022
```

```
@author: GANESAMOORTHY
```

```
"""
```

```
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": {
```

```
        "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)
```