

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

| | |
|---------------|--|
| Team ID | PNT2022TMID33019 |
| Project Name | Project Name Project - Real-Time River Water Quality Monitoring and Control System |
| Maximum Marks | 4 Marks |

DEVELOP PYTHON CODE :

```
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig = {
    "identity":{
```

```
    "orgId": "ofymg2",
    "typeId": "Ultrasonic_sensor03",
    "deviceId": "012"
},
"auth": {
    "token": "87654321"
}
}

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

def myCommandCallback (cmd):
    print ("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']
    if (m=="motoron"):
        print ("Motor is switched on")
    elif (m=="motoroff"):
        print ("Motor is switched OFF")
```

```
print (" ")
while True:
    soil=random.randint (0, 100)
    temp=random.randint (-20,125)
    hum=random.randint (0,100)
    myData={'soil moisture': soil, 'temperature': temp, 'humidity':hum}
    client.publishEvent (eventId="status", msgFormat-"json", data=myData, qos-0, onPublish=None)
    print("Published data Successfully: %s", myData)
    time.sleep(2)
    client.commandCallback=myCommandCallback
client.disconnect()
```