

## DEVELOP A PYTHON SCRIPT- PYTHON CODE

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

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()
```