

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 :

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
```

```
"identity": {  
    "orgId": "hj5fmy",  
    "typeId": "NodeMCU",  
    "deviceId": "12345"  
},  
"auth": {  
    "token": "12345678"  
}  
}
```

```
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)  
    myData={'temperature':temp, 'humidity':hum}  
    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()
```