DEVELOP A PYTHON SCRIPT

TEAM ID	PNT2022TMID33916
PROJECT NAME	Real-Time River Water Quality Monitoring and Control System

Python Code:

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "luicm6",
        "typeId": "ThisDevice",
        "deviceId":"12309"
    },
    "auth": {
        "token": "V2oLr-jJK48pMO8rHx"
    }
}

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:
```

```
    turbidity=random.randint(1,1000)
    pH=random.randint(0,12)
    myData={'turbidity':turbidity, 'pH':pH}
    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()
```

Output:


File Edit Shell Debug Options Window Help
========== RESTART: C:/Users/KOWSIK/Downloads/ibm preq.py ==========
2022-11-19 15:15:41,880 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:luicm6:ThisDevice:12309
Published data Successfully: %s {'turbidity': 975, 'pH': 6}
Published data Successfully: %s {'turbidity': 410, 'pH': 4}
Published data Successfully: %s {'turbidity': 736, 'pH': 12}
Published data Successfully: %s {'turbidity': 401, 'pH': 5}
Published data Successfully: %s {'turbidity': 558, 'pH': 7}
Published data Successfully: %s {'turbidity': 729, 'pH': 10}
Published data Successfully: %s {'turbidity': 173, 'pH': 11}
Published data Successfully: %s {'turbidity': 299, 'pH': 9}
Published data Successfully: %s {'turbidity': 537, 'pH': 4}
Published data Successfully: %s {'turbidity': 412, 'pH': 12}
Published data Successfully: %s {'turbidity': 106, 'pH': 7}
Published data Successfully: %s {'turbidity': 67, 'pH': 9}
Published data Successfully: %s {'turbidity': 24, 'pH': 1}
Published data Successfully: %s {'turbidity': 904, 'pH': 4}
Published data Successfully: %s {'turbidity': 524, 'pH': 1}
Published data Successfully: %s {'turbidity': 305, 'pH': 8}
Published data Successfully: %s {'turbidity': 3, 'pH': 1}
Published data Successfully: %s {'turbidity': 25, 'pH': 5}
Published data Successfully: %s {'turbidity': 822, 'pH': 10}
Published data Successfully: %s {'turbidity': 484, 'pH': 3}
Published data Successfully: %s {'turbidity': 255, 'pH': 3}
Published data Successfully: %s {'turbidity': 883, 'pH': 7}
Published data Successfully: %s {'turbidity': 322, 'pH': 6}
Published data Successfully: %s {'turbidity': 556, 'pH': 1}
Published data Successfully: %s {'turbidity': 775, 'pH': 2}
Published data Successfully: %s {'turbidity': 416, 'pH': 7}
Published data Successfully: %s {'turbidity': 7, 'pH': 11}
Published data Successfully: %s {'turbidity': 417, 'pH': 9}
Published data Successfully: %s {'turbidity': 695, 'pH': 3}
Published data Successfully: %s {'turbidity': 255, 'pH': 6}
Published data Successfully: %s {'turbidity': 720, 'pH': 10}
Published data Successfully: %s {'turbidity': 811, 'pH': 3}
Published data Successfully: %s {'turbidity': 451, 'pH': 2}
Published data Successfully: %s {'turbidity': 808, 'pH': 1}
Published data Successfully: %s {'turbidity': 227, 'pH': 10}
Published data Successfully: %s {'turbidity': 209, 'pH': 7}
Published data Successfully: %s {'turbidity': 218, 'pH': 8}
Published data Successfully: %s {'turbidity': 402, 'pH': 6}
Published data Successfully: %s {'turbidity': 96, 'pH': 9}
Published data Successfully: %s {'turbidity': 157, 'pH': 8}
Published data Successfully: %s {'turbidity': 898, 'pH': 4}
Published data Successfully: %s {'turbidity': 907, 'pH': 2}
Published data Successfully: %s {'turbidity': 157, 'pH': 7}
Published data Successfully: %s {'turbidity': 213, 'pH': 7}
Published data Successfully: %s {'turbidity': 107, 'pH': 4}
Ln: 312 Col: 0