PREREQUISITES

IBM CLOUD

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Project Name	REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

Python-Code:

```
import wiotp.sdk.device

import time

import random

myConfig = {

   "identity": {

      "orgId": "ttr4ty",

      "typeId": "mydevice1",

      "deviceId":"123456"

   },

   "auth": {

      "token": "abcd1234"

   }
```

```
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" %
cmd.data['command'])
    m=cmd.data['command']
    if m == "lighton":
        print("motor is RUNNING....")
    else:
        print("motor is STOPPED ..! ")

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

while True:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    con = random.randint(0,100)
    tur = random.randint(0,100)
    phh = random.randint(0,14)
```

```
    myData={'temperature':temp,
'humidity':hum,'conductivity':con,'turbidity':tur,'ph':phh}
    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()
```