

DEVELOP THE PYTHON SCRIPT

PROJECT **REAL TIME WATER QUALITY MONITORING AND CONTROL
SYSTEM**

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DEVELOP THE PYTHON SCRIPT:

```
import random

import time


#IBM Watson IOT Platform

#pip install wiotp-sdk

import wiotp.sdk.device


myConfig =
    { "identity":
      {
        "orgId": "orgAlpha",
        "typeId": "WaterMonitor",
        "deviceId":"1234"
      },
      "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)
```

```
    PH=random.randint(0,14)
```

```
    O2=random.randint(0,100)
```

```
    myData={'temperature':temp, 'humidity':hum, 'phvalue':PH, 'dissolved_oxygen':O2}
```

```
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
```

```
    print("Published data Successfully: %s", myData)
```

```
    client.commandCallback = myCommandCallback
```

```
    time.sleep(5)
```

```
client.disconnect(5)
```