

## Develop A Python Script to Publish and Subscribe To IBM IoT Platform

**Task:** Develop A Python Script to Publish and Subscribe to IBM IoT Platform

### Program:

```
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig = {
    "identity": {
        "orgId": "hjSfmy",
        "typeId": "DeviceId",
        "deviceId": "67890"
    },
    "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 ()
```