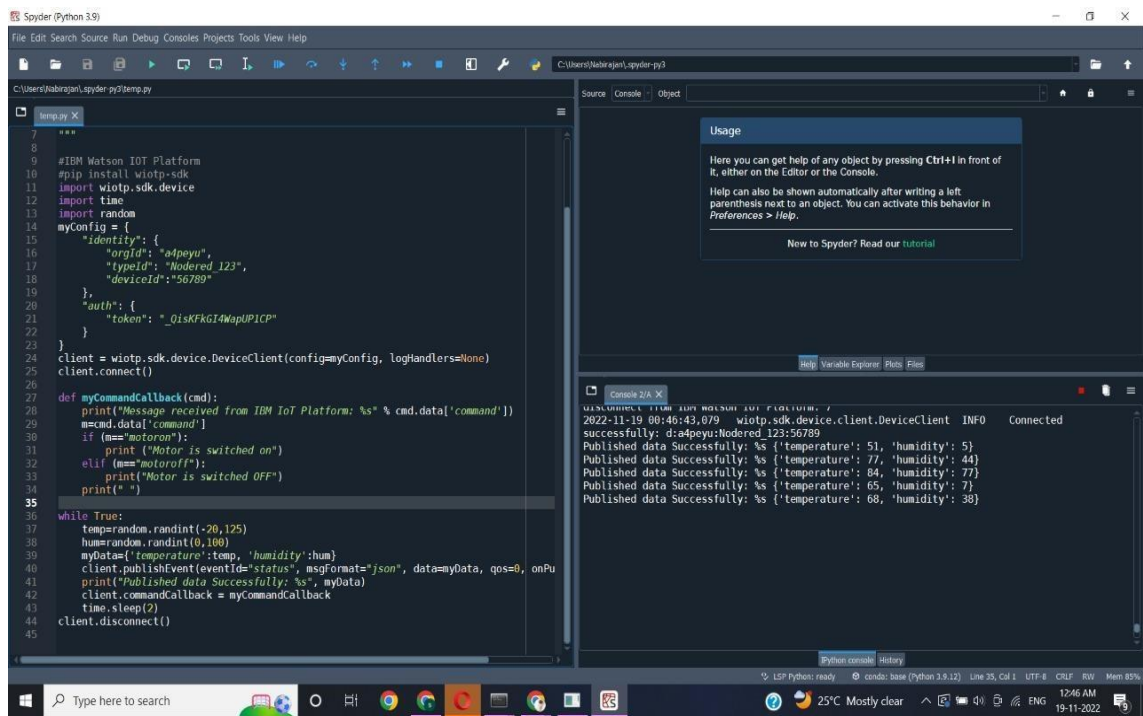


DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSCRIBE TO IBM IOT PLATFORM



The screenshot shows the Spyder Python IDE interface. The main editor displays a Python script for connecting to the IBM IoT Platform and publishing data. The script includes the following code:

```
7 ***
8
9 #IBM Watson IoT Platform
10 #pip install wiotp-sdk
11 import wiotp.sdk.device
12 import time
13 import random
14 myConfig = {
15     "identity": {
16         "orgId": "a4peyu",
17         "typeId": "Nodered_123",
18         "deviceId": "56789"
19     },
20     "auth": {
21         "token": "_QisKFKGI4wupUP1CP"
22     }
23 }
24 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
25 client.connect()
26
27 def myCommandCallback(cmd):
28     print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
29     cmd.data['command']
30     if (cmd=="motoron"):
31         print("Motor is switched on")
32     elif (cmd=="motoroff"):
33         print("Motor is switched OFF")
34     print(" ")
35
36 while True:
37     temp=random.randint(-20,125)
38     humer=random.randint(0,100)
39     myData={'temperature':temp, 'humidity':humer}
40     client.publishEvent(eventId='status', msgFormat='json', data=myData, qos=0, onPu
41     print("Published data Successfully: %s", myData)
42     client.commandCallback = myCommandCallback
43     time.sleep(2)
44     client.disconnect()
```

The console output shows the following messages:

```
2022-11-19 00:46:43.879 wiotp.sdk.device.client.DeviceClient INFO Connected
successfully: d:a4peyu:Nodered_123:56789
Published data Successfully: %s {'temperature': 51, 'humidity': 5}
Published data Successfully: %s {'temperature': 77, 'humidity': 44}
Published data Successfully: %s {'temperature': 84, 'humidity': 77}
Published data Successfully: %s {'temperature': 65, 'humidity': 7}
Published data Successfully: %s {'temperature': 68, 'humidity': 38}
```

