

Sprint - 1

Connecting Module with python

Date	7 November 2022
Team ID	PNT2022TMID43020
Project Name	Smart Farmer-IoT Enabled Smart Farming Application

```
#IBM Watson IOT Platform
```

```
#pip install wiotp-sdk
```

```
import wiotp.sdk.device
```

```
import time
```

```
import random
```

```
myConfig = {
```

```
    "identity": {
```

```
        "orgId": "hj5fmy",
```

```
        "typeId": "NodeMCU",
```

```
        "deviceId": "12345"
```

```
    },
```

```
    "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)
```

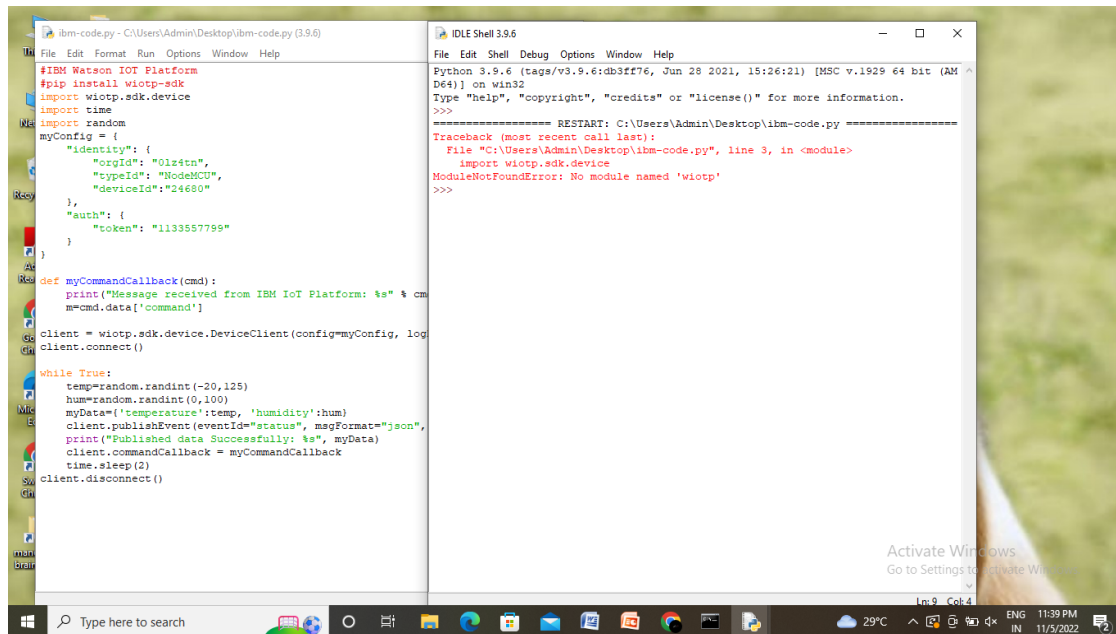
```
    hum=random.randint(0,100)
```

```
    myData={'temperature':temp, 'humidity':hum}
```

```
    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()
```



The screenshot displays a Windows desktop environment. On the left, a text editor window titled 'ibm-code.py - C:\Users\Admin\Desktop\ibm-code.py (3.9.6)' contains a Python script. The script imports 'random', 'time', and 'wiot', defines a configuration dictionary, a callback function, and a loop that publishes random temperature and humidity data to the IBM Watson IoT Platform. On the right, an 'IDLE Shell 3.9.6' window shows the execution of the script. It displays the Python version and a traceback error: 'ModuleNotFoundError: No module named 'wiot''. The error message indicates that the 'wiot' module is not installed or not in the Python path. The Windows taskbar at the bottom shows the date as 11/5/2022 and the time as 11:39 PM.

```
ibm-code.py - C:\Users\Admin\Desktop\ibm-code.py (3.9.6)
File Edit Format Run Options Window Help
#IBM Watson IoT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "01e4ta",
        "typeId": "NodeMCD",
        "deviceId": "24680"
    },
    "auth": {
        "token": "1133557799"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd)
    m=cmd.data['command']

client = wiotp.sdk.device.DeviceClient(config=myConfig, log=
client.connect()

while True:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum}
    client.publishEvent(eventId="status", msgFormat="json",
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()

IDLE Shell 3.9.6
File Edit Shell Debug Options Window Help
Python 3.9.6 (tags/v3.9.6:db3fff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Admin\Desktop\ibm-code.py =====
Traceback (most recent call last):
  File "C:\Users\Admin\Desktop\ibm-code.py", line 3, in <module>
    import wiotp.sdk.device
ModuleNotFoundError: No module named 'wiot'
>>>
```

I am unable to find the wiot module with python 3.9