

VIT IOT - (Industry Certificate Program)

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Assignment 4

Develop a mobile application that takes the user input and sends it to IoT device (python code). print the received data in python shell.

Keep a text box to accept the user input. Integrate a submit button.

whenever user enters the text input in text box and clicks the button the data should be sent to IBM cloud using URL (HTTP API).

CODE:

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

```
import time
```

```
import random
```

```
myConfig = {
```

```
    "identity": {
```

```
        "orgId": "1smyiq",
```

```
        "typeId": "Sravan",
```

```
        "deviceId": "8648"
```

```
    },
```

```
    "auth": {
```

```
        "token": "Sravan@123"
```

```
    }
```

```
}
```

```
def myCommandCallback(cmd):
```

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

```
    m=cmd.data['command']
```

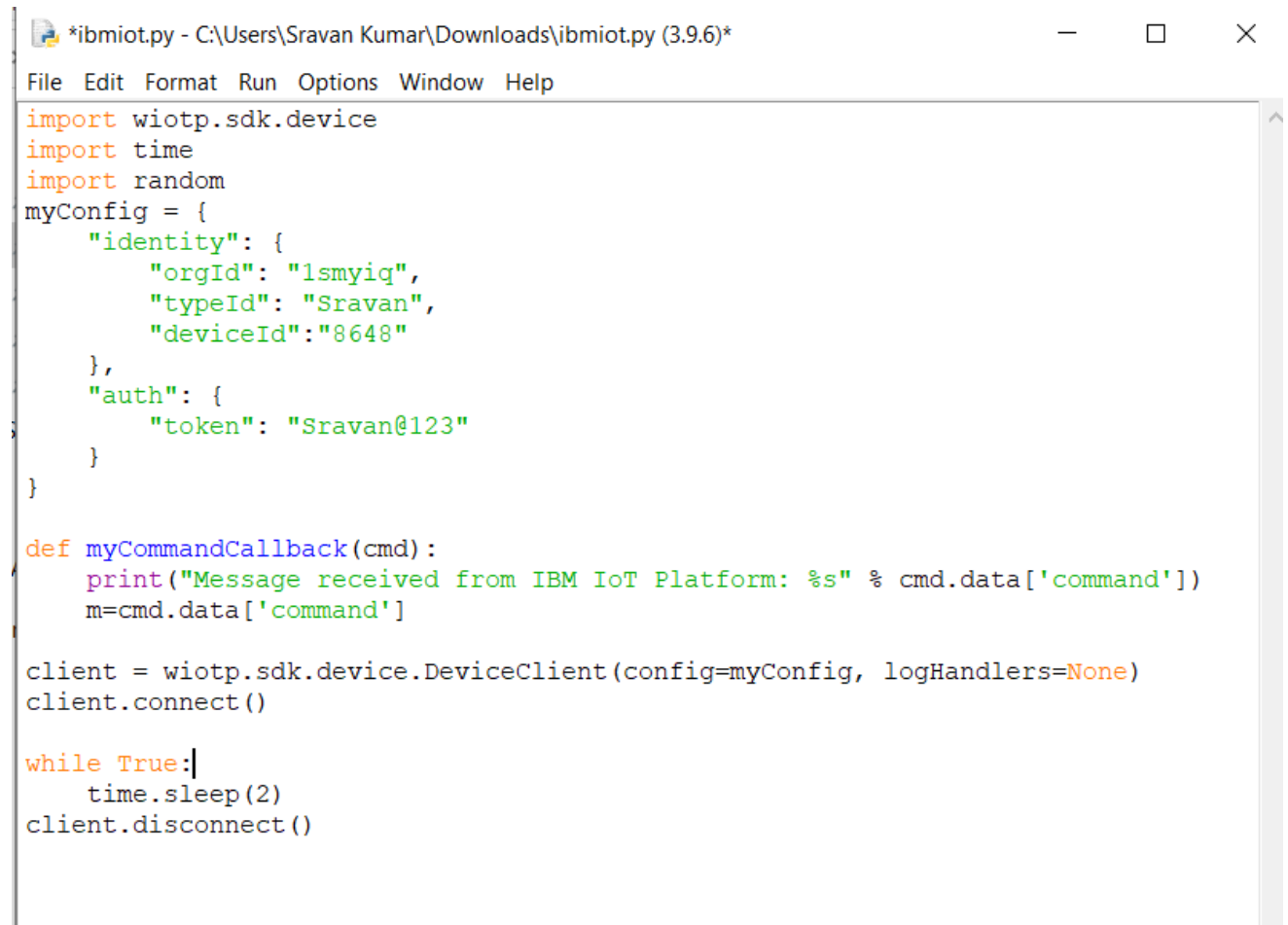
```
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
```

```
while True:
```

```
    client.commandCallback = myCommandCallback
```

```
    time.sleep(2)
```

```
client.disconnect()
```

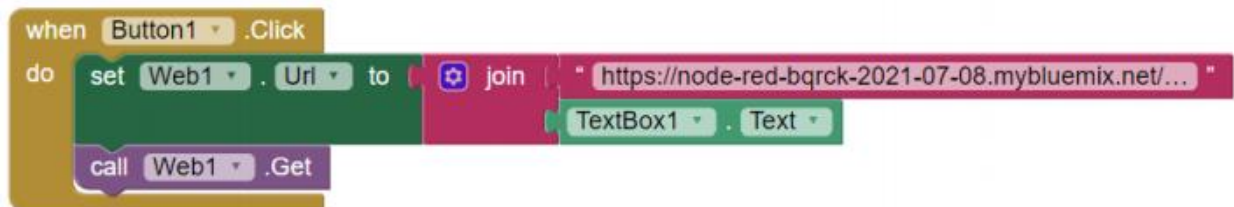
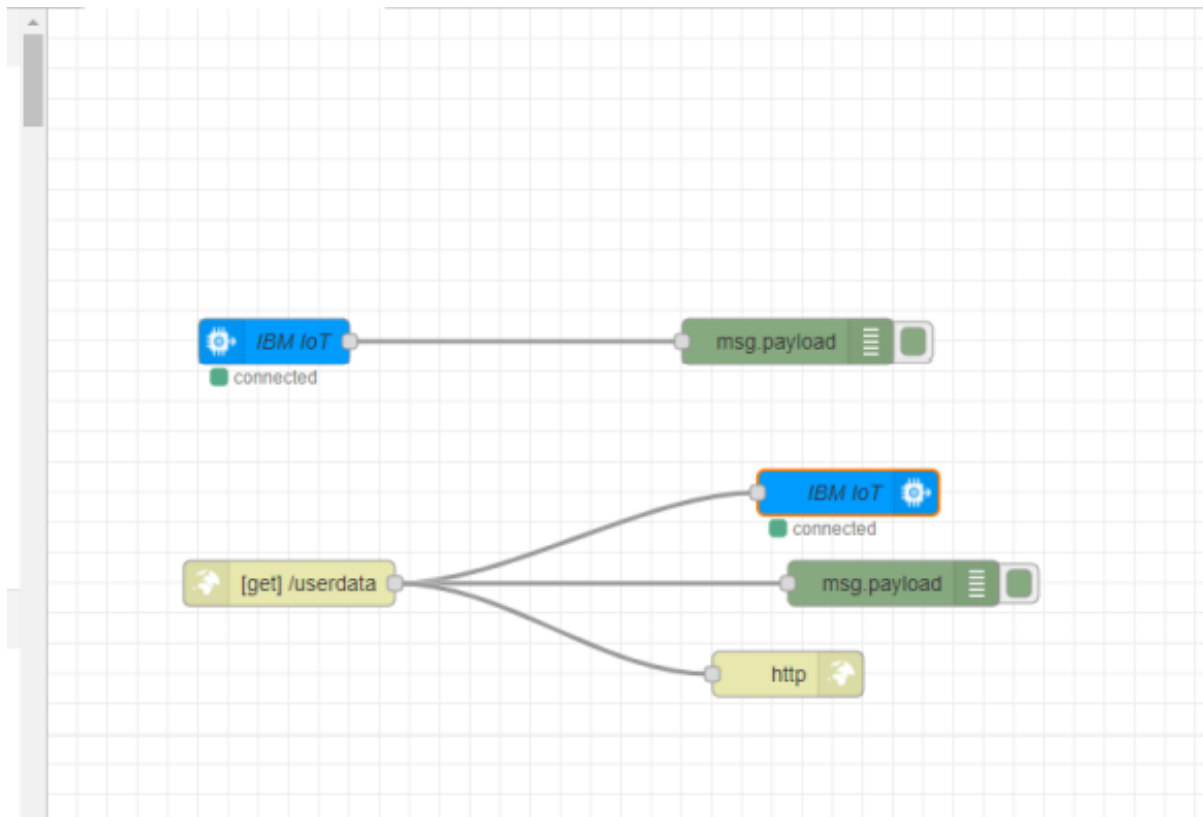
A screenshot of a text editor window showing a Python script. The window title is '*ibmiot.py - C:\Users\Sravan Kumar\Downloads\ibmiot.py (3.9.6)*'. The menu bar includes File, Edit, Format, Run, Options, Window, and Help. The script content is as follows:

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "lsmyiq",
        "typeId": "Sravan",
        "deviceId": "8648"
    },
    "auth": {
        "token": "Sravan@123"
    }
}

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:
    time.sleep(2)
client.disconnect()
```



OUTPUT:

3:03 0.64 KB/S LTE 44

Screen1

Type Something....

hello world

SUBMIT

```
-----  
2021-07-18 15:21:31,430   wiotp.sdk.device.client.DeviceClient  INFO    Connecte  
d successfully: d:d9cbnt:FirstDevice:14831  
Message received from IBM IoT Platform: hello world  
Message received from IBM IoT Platform: hello world  
|
```

```
7/18/2021, 3:16:16 PM   node: 5a87d33a.ef0cdc  
msg.payload : Object
```

```
▶ { command : " hello world" }
```

```
7/18/2021, 3:16:17 PM   node: e92d61ae.a9c68  
iot-2/type/FirstDevice/id/14831/cmd/cmd/fmt/json  
msg.payload : Object
```

```
▶ { command : " hello world" }
```