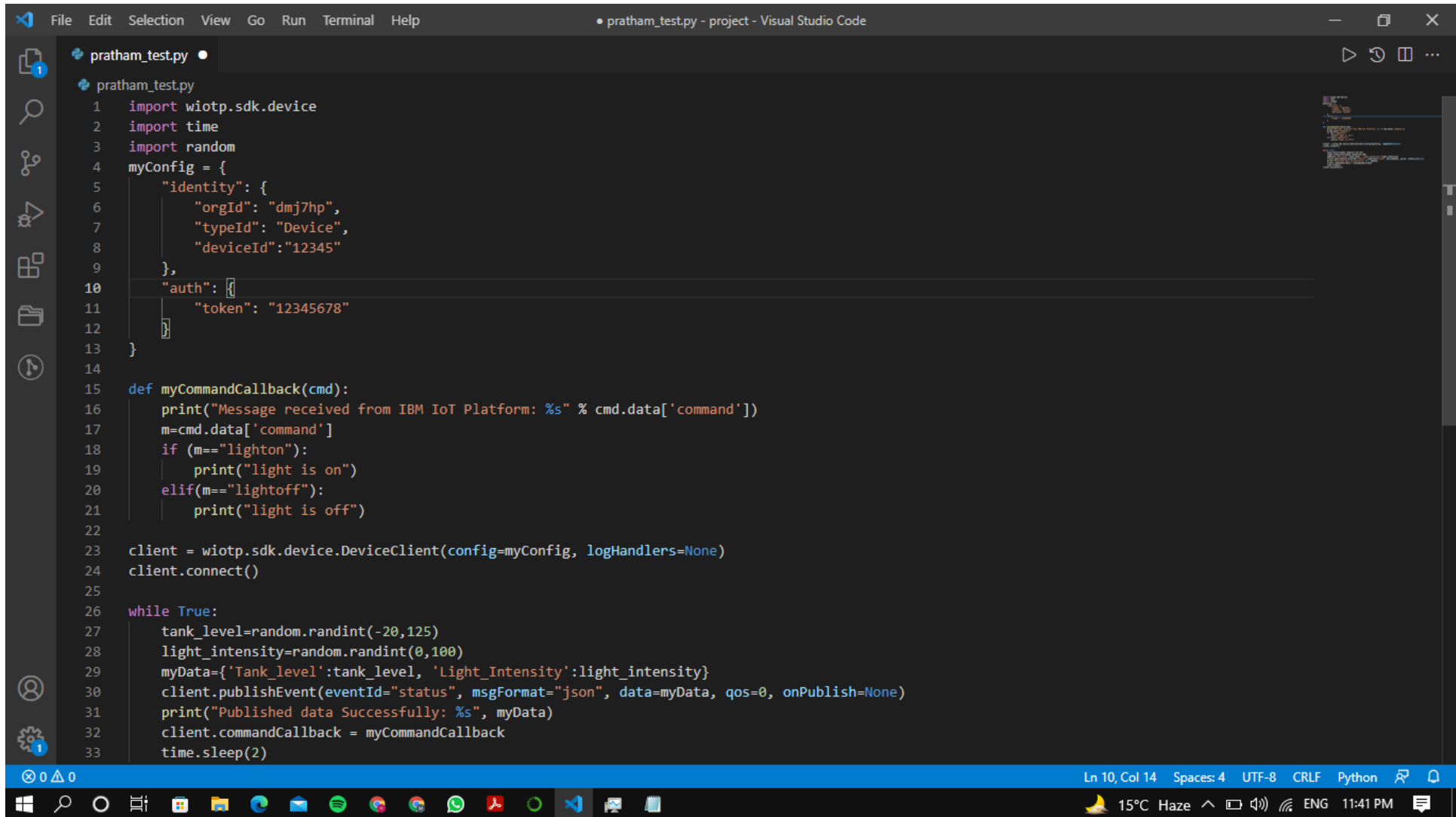


Name: - Pratham J Barot

Reg No: - 19MIM10063



```
1 import wiotp.sdk.device
2 import time
3 import random
4 myConfig = {
5     "identity": {
6         "orgId": "dmj7hp",
7         "typeId": "Device",
8         "deviceId": "12345"
9     },
10    "auth": {
11        "token": "12345678"
12    }
13 }
14
15 def myCommandCallback(cmd):
16     print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
17     m=cmd.data['command']
18     if (m=="lighton"):
19         print("light is on")
20     elif(m=="lightoff"):
21         print("light is off")
22
23 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
24 client.connect()
25
26 while True:
27     tank_level=random.randint(-20,125)
28     light_intensity=random.randint(0,100)
29     myData={'Tank_level':tank_level, 'Light_Intensity':light_intensity}
30     client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
31     print("Published data Successfully: %s", myData)
32     client.commandCallback = myCommandCallback
33     time.sleep(2)
```

Ln 10, Col 14 Spaces: 4 UTF-8 CRLF Python

15°C Haze 11:41 PM

pratham_test.py • pratham_test.py - project - Visual Studio Code

```
1 import wiotp.sdk.device
2 import time
3 import random
4 myConfig = {
5     "identity": {
6         "orgId": "c5r1c",
7         "typeId": "1298",
8         "deviceId": "device"
9     },
10    "auth": {
11        "token": "Nazim@123"
12    }
13 }
14
15 def myCommandCallback(cmd):
16     print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
17     m=cmd.data['command']
18     if (m=="lighton"):
19         print("...light is on")
20     elif(m=="lightoff"):
```

TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE Code

[Done] exited with code=1 in 41.678 seconds

[Running] python -u "c:\Users\nadee\OneDrive\Documents\GitHub\project\pratham_test.py"

2021-12-10 23:42:05,954 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:c5rqlc:1298:device

Published data Successfully: %s {'Tank_level': -13, 'Light_Intensity': 97}

Published data Successfully: %s {'Tank_level': 54, 'Light_Intensity': 78}

Published data Successfully: %s {'Tank_level': 74, 'Light_Intensity': 88}

Published data Successfully: %s {'Tank_level': 26, 'Light_Intensity': 28}

Published data Successfully: %s {'Tank_level': 120, 'Light_Intensity': 52}

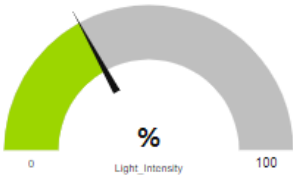
Ln 12, Col 6 Spaces: 4 UTF-8 CRLF Python 15°C Haze ENG 11:42 PM

node-red-pgrfy-2021-12-02.mybluemix.net/ui/#/0...

VIT-B Dashboard

Demo

Light_Intensity




0 % 100
Light_Intensity

LIGHT ON

LIGHT OFF

Water_tank_level



150
100
50
0
-50
23:42:05 23:42:15 23:42:25 23:42:41

UG PROJECT FOR....pdf motion_gesture_r....docx Show all

pratham_test.py

```
1 import wiotp.sdk.device
2 import time
3 import random
4 myConfig = {
5     "identity": {
6         "orgId": "c5rlc",
7         "typeId": "1298",
8         "deviceId": "device"
9     },
10    "auth": {
11        "token": "Nazim@123"
12    }
13 }
14
15 def myCommandCallback(cmd):
16     print("Message received from IBM IoT Platform: %s" % cmd.data)
17     m=cmd.data['command']
18     if (m=="lighton"):
19         print("...light is on")
20     elif(m=="lightoff"):
```

TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE Code

```
Published data Successfully: %s {'Tank_level': 100, 'Light_Intensity': 93}
Published data Successfully: %s {'Tank_level': 2, 'Light_Intensity': 93}
Published data Successfully: %s {'Tank_level': 43, 'Light_Intensity': 63}
Published data Successfully: %s {'Tank_level': 80, 'Light_Intensity': 55}
Message received from IBM IoT Platform: lighton
...light is on
Published data Successfully: %s {'Tank_level': -17, 'Light_Intensity': 18}
Message received from IBM IoT Platform: lightoff
...light is off
Published data Successfully: %s {'Tank_level': -2, 'Light_Intensity': 34}
```

Ln 12, Col 6 Spaces: 4 UTF-8 CRLF Python

15°C Haze ENG 11:42 PM

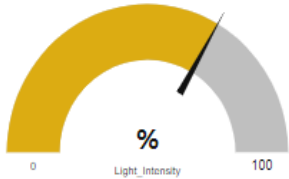
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node-red-pgrfy-2021-12-02.mybluemix.net/ui/#/0...

VIT-B Dashboard

Demo

Light_Intensity

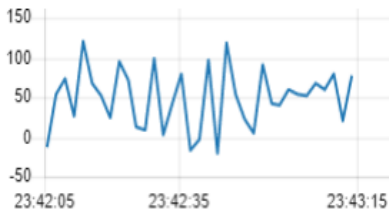


0 % 100
Light_Intensity

LIGHT ON

LIGHT OFF

Water_tank_level



150
100
50
0
-50
23:42:05 23:42:35 23:43:15

UG PROJECT FOR....pdf | motion_gesture_r....docx | Show all X

Node-RED : node-red-pgrfy-202 x +

node-red-pgrfy-2021-12-02.mybluemix.net/red/#fl...

Node-RED

Deploy

filter nodes

Flow 1

common

- inject
- debug
- complete
- catch
- status
- link in
- link call
- link out
- comment

function

- function
- switch
- change
- range

Flow 1

Hello Node-RED! hiii

IBM IoT

connected

water

Light

Light

Light

debug

all nodes

all

```
{ Tank_level: 59, Light_Intensity: 70 }
```

12/10/2021, 11:43:08 PM node: 65e586f8b0007761
msg.payload : Object

```
{ command: "lightoff" }
```

12/10/2021, 11:43:10 PM node: 738c697daedc3696
iot-2/type/1298/id/device/evt/status/fmt/json :
msg.payload : Object

```
{ Tank_level: 79, Light_Intensity: 29 }
```

12/10/2021, 11:43:12 PM node: 738c697daedc3696
iot-2/type/1298/id/device/evt/status/fmt/json :
msg.payload : Object

```
{ Tank_level: 20, Light_Intensity: 71 }
```

12/10/2021, 11:43:13 PM node: 65e586f8b0007761
msg.payload : Object

```
{ command: "lighton" }
```

12/10/2021, 11:43:14 PM node: 65e586f8b0007761
msg.payload : Object

```
{ command: "lightoff" }
```

12/10/2021, 11:43:14 PM node: 738c697daedc3696
iot-2/type/1298/id/device/evt/status/fmt/json :
msg.payload : Object

```
{ Tank_level: 77, Light_Intensity: 62 }
```

15°C Haze 11:43 PM