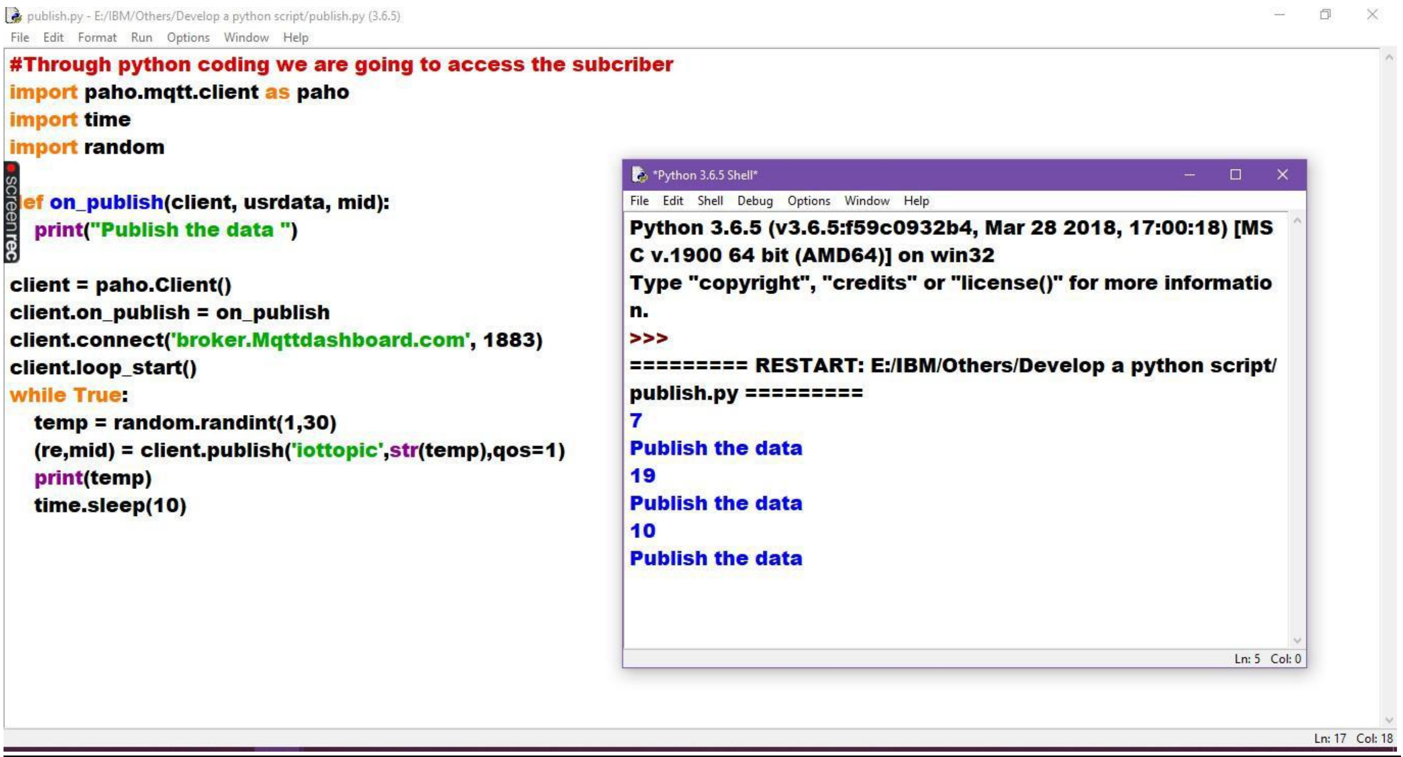
DEVELOP a PYTHON SCRIPT

Publish Data to the IBM Cloud

DATE:	31-10-2022
TEAM ID:	PNT2022TMID26590
PROJECT NAME:	SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY

Signs With Smart Connectivity For Better Road Safety



publish.py - E:/IBM/Others/Develop a python script/publish.py (3.6.5)

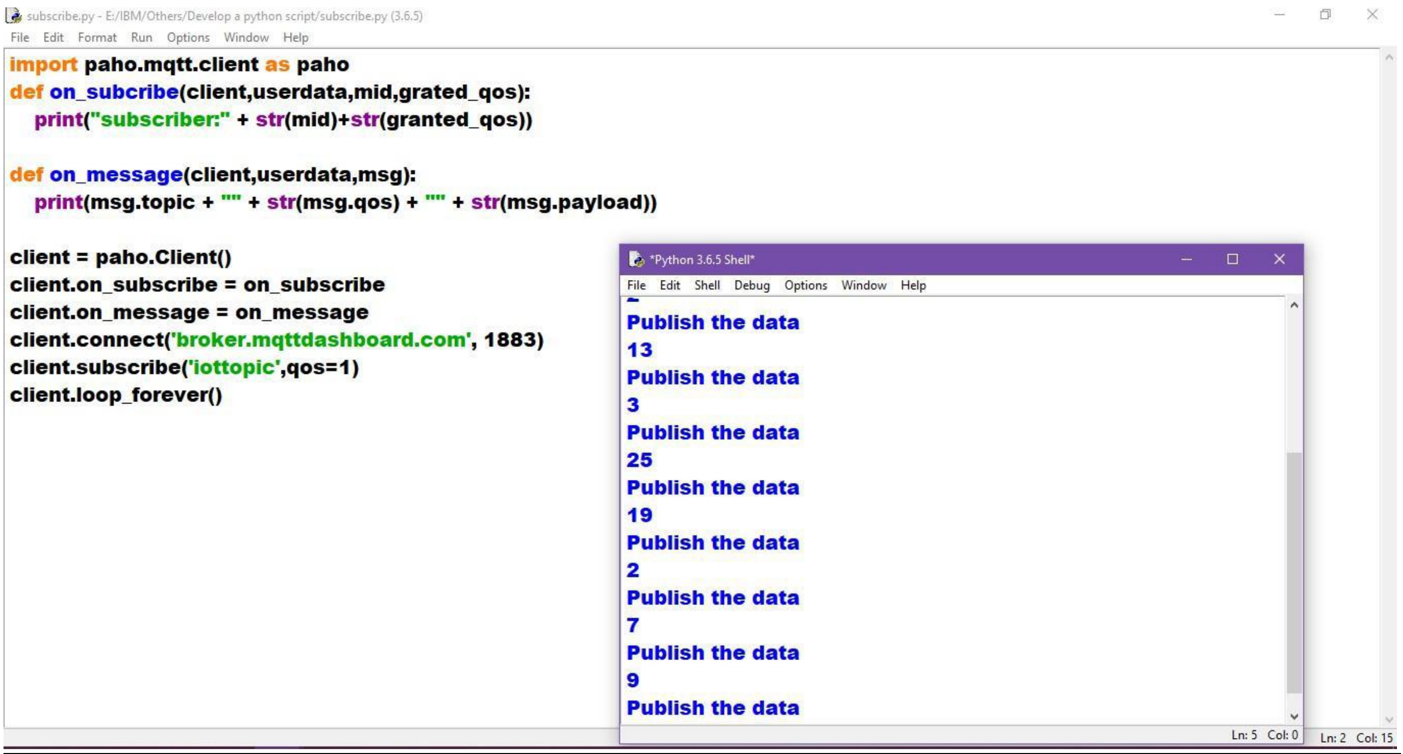
```
#Through python coding we are going to access the subcriber
import paho.mqtt.client as paho
import time
import random

def on_publish(client, usrdata, mid):
    print("Publish the data ")

client = paho.Client()
client.on_publish = on_publish
client.connect('broker.Mqttdashboard.com', 1883)
client.loop_start()
while True:
    temp = random.randint(1,30)
    (re,mid) = client.publish('iottopic',str(temp),qos=1)
    print(temp)
    time.sleep(10)
```

Python 3.6.5 Shell

```
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MS
C v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more informatio
n.
>>>
========= RESTART: E:/IBM/Others/Develop a python script/
publish.py =========
7
Publish the data
19
Publish the data
10
Publish the data
```



subscribe.py - E:/IBM/Others/Develop a python script/subscribe.py (3.6.5)

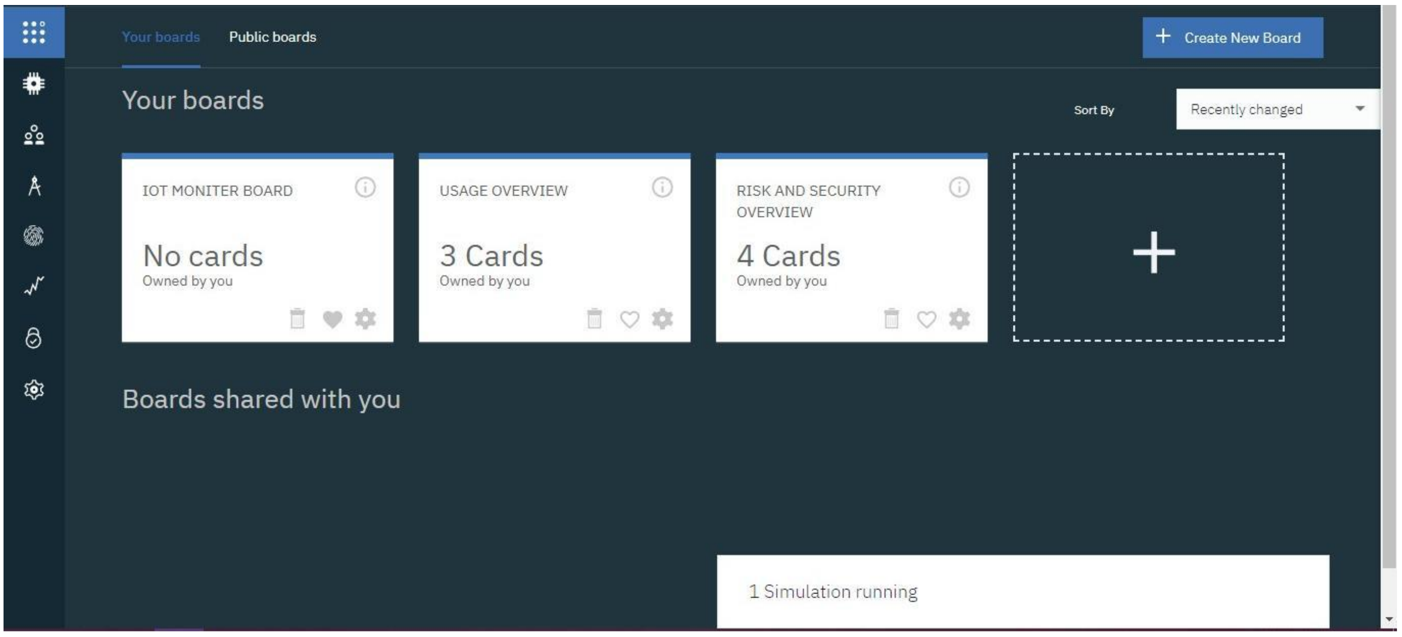
```
import paho.mqtt.client as paho
def on_subcribe(client,userdata,mid,grated_qos):
    print("subscriber:" + str(mid)+str(granted_qos))

def on_message(client,userdata,msg):
    print(msg.topic + "" + str(msg.qos) + "" + str(msg.payload))

client = paho.Client()
client.on_subscribe = on_subscribe
client.on_message = on_message
client.connect('broker.mqttdashboard.com', 1883)
client.subscribe('iottopic',qos=1)
client.loop_forever()
```

Python 3.6.5 Shell

```
Publish the data
13
Publish the data
3
Publish the data
25
Publish the data
19
Publish the data
2
Publish the data
7
Publish the data
9
Publish the data
```


Your boards Public boards

Create New Board

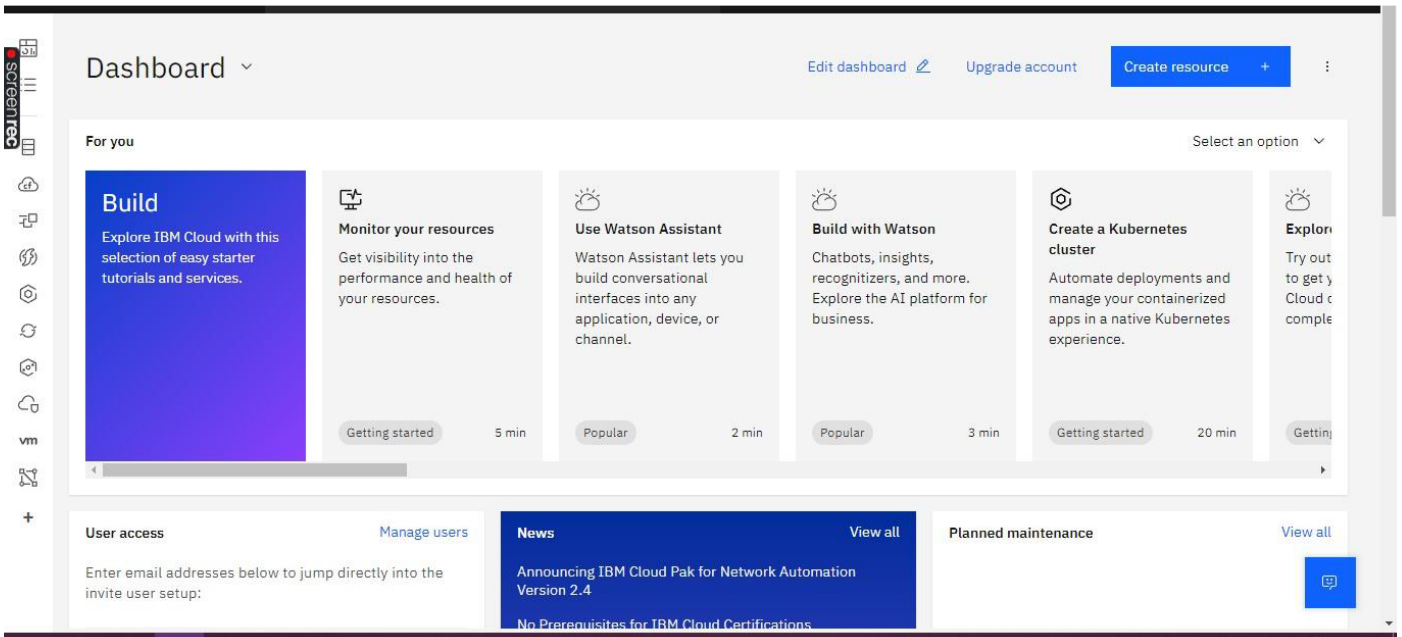
Your boards

Sort By Recently changed

IOT MONITER BOARD	USAGE OVERVIEW	RISK AND SECURITY OVERVIEW
No cards	3 Cards	4 Cards
Owned by you	Owned by you	Owned by you

Boards shared with you

1 Simulation running


Dashboard

Edit dashboard Upgrade account Create resource

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User access Manage users

Enter email addresses below to jump directly into the invite user setup:

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Program :

```
#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()
```