DEVELOP THE PYTHON SCRIPT

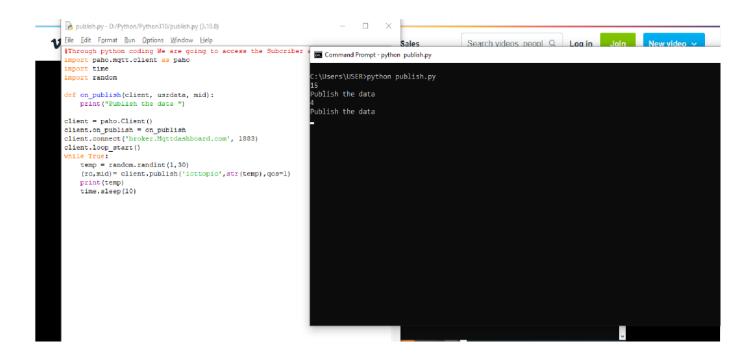
Publish data to the IBM Cloud

Team ID: PNT2022TMID11625

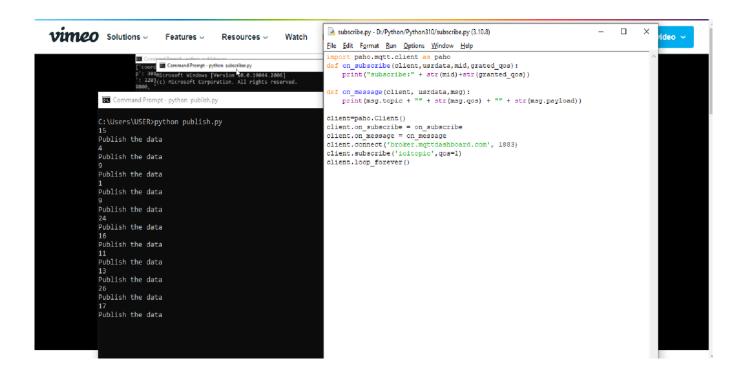
Project Name - SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY

To make a Publisher and Subscriber in the process of Python and IBM cloud

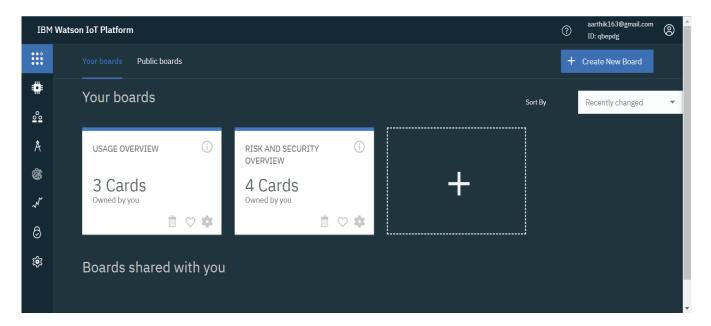
publish.py - D:/Python/Python310/publish.py (3.10.8) 1 File Edit Format Run Options Window Help #Through python coding We are going to access the Subcriber and p file Edit Format Run Options Window Help import paho.mgtt.client as paho import paho.mqtt.client as paho import time def on subscribe(client,usrdata,mid,grated_qos):
 print("subscribe:" + str(mid)+str(granted_qos)) import random def on_publish(client, usrdata, mid): def on_message(client, usrdata,msg):
 print(msg.topic + "" + str(msg.qos) + "" + str(msg.payload)) print ("Publish the data ") client = paho.Client() client=paho.Client()
client.on_subscribe = on_subscribe
client.on_message = on message
client.connect('broker.mqttdashboard.com', 1883)
client.subscribe client.on_publish = on_publish client.connect('broker.Mqttdashboard.com', 1883) client.loop_start() temp = random.randint(1,30)
(rc,mid) = client.publish('iottopic',str(temp),qos=1) print(temp)
time.sleep(10)



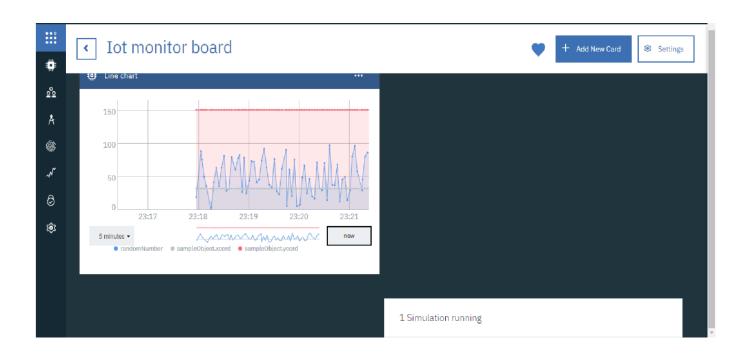
3.

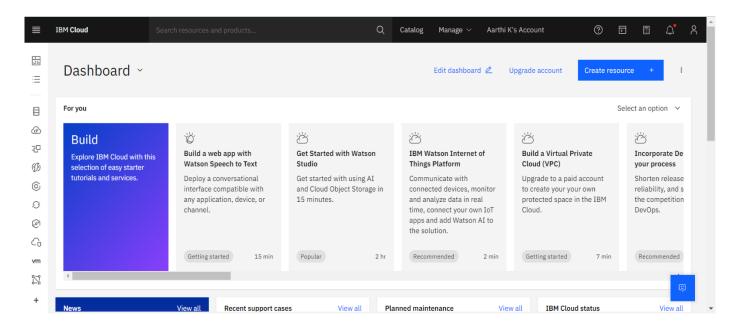


4.



5.





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.command Callback = my Command Callback \\
time.sleep(2)
client.disconnect()
```

}