

DEVELOP THE PYTHON SCRIPT

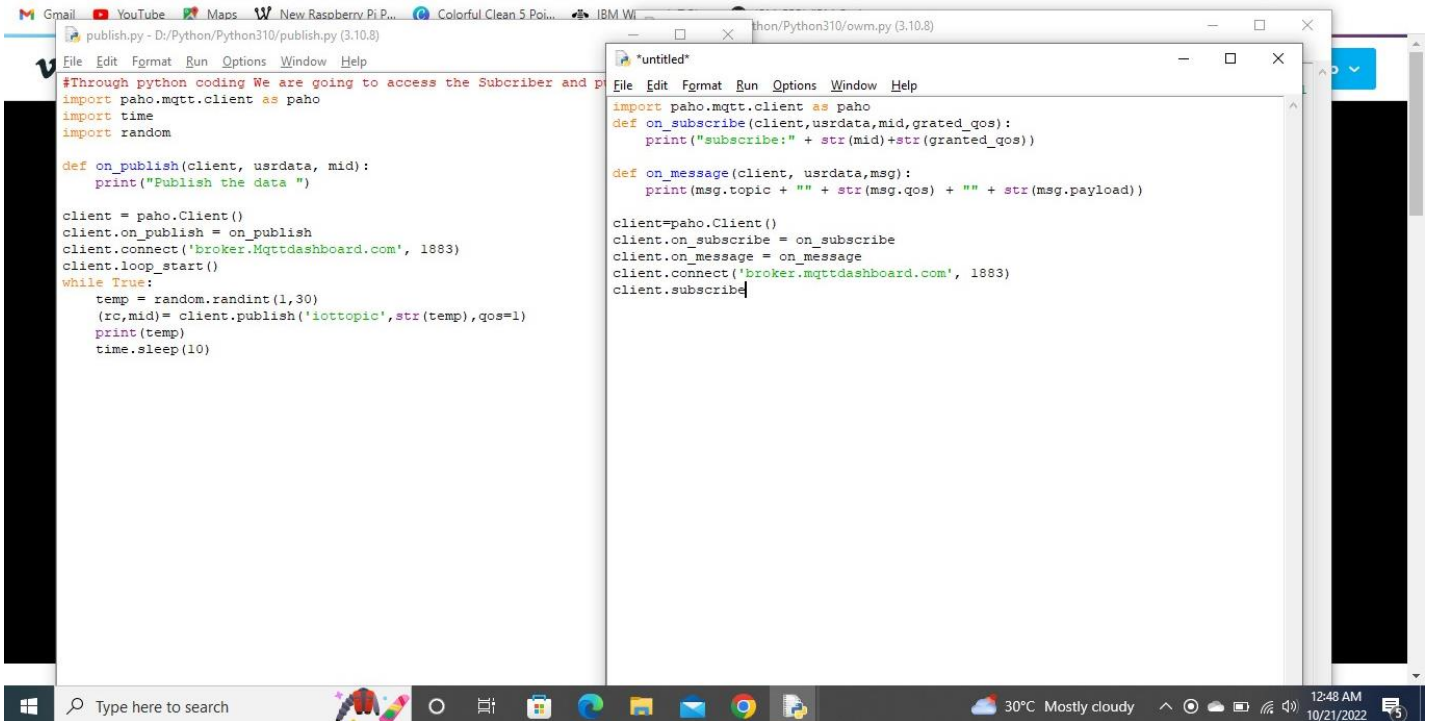
Publish data to the IBM Cloud

Date : 21 October 2022

Team ID : PNT2022TMID37754

Project Name - Industry-specific intelligent fire management system

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



```
publish.py - D:/Python/Python310/publish.py (3.10.8)
File Edit Format Run Options Window Help
#Through python coding We are going to access the Subscriber and p
import paho.mqtt.client as paho
import time
import random

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

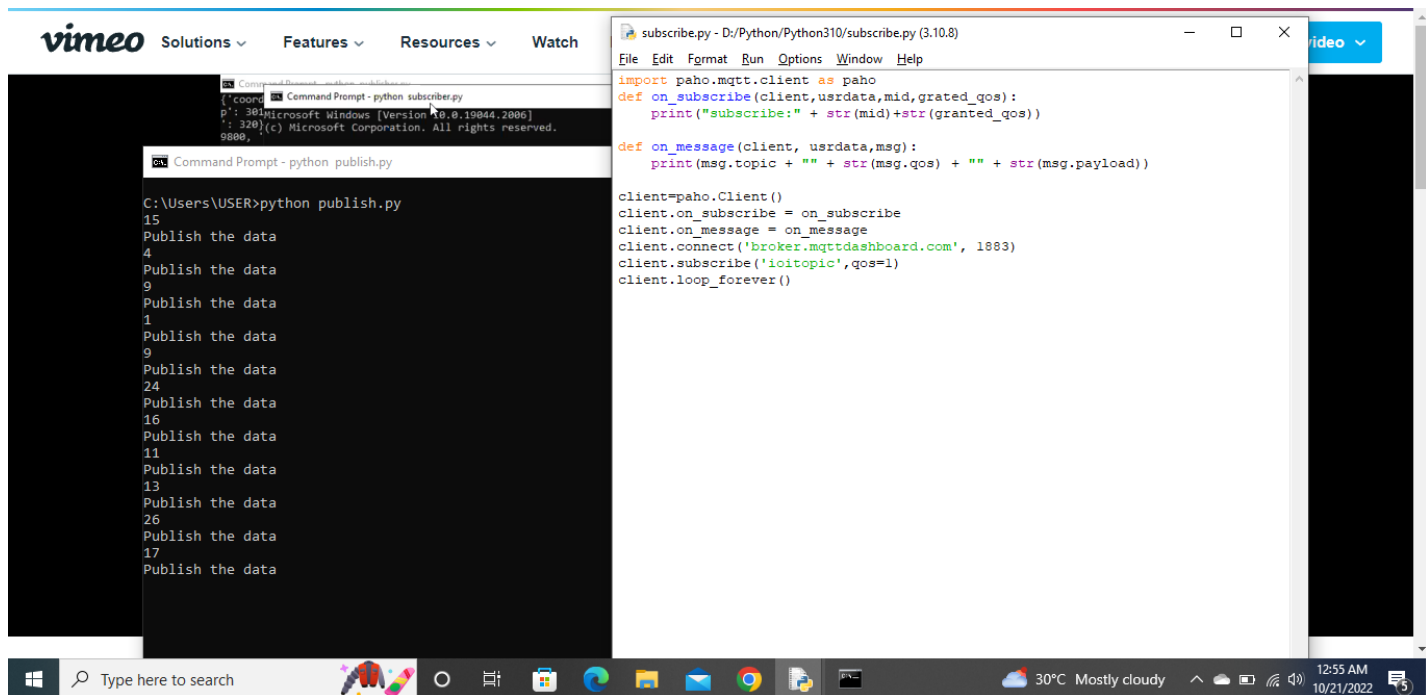
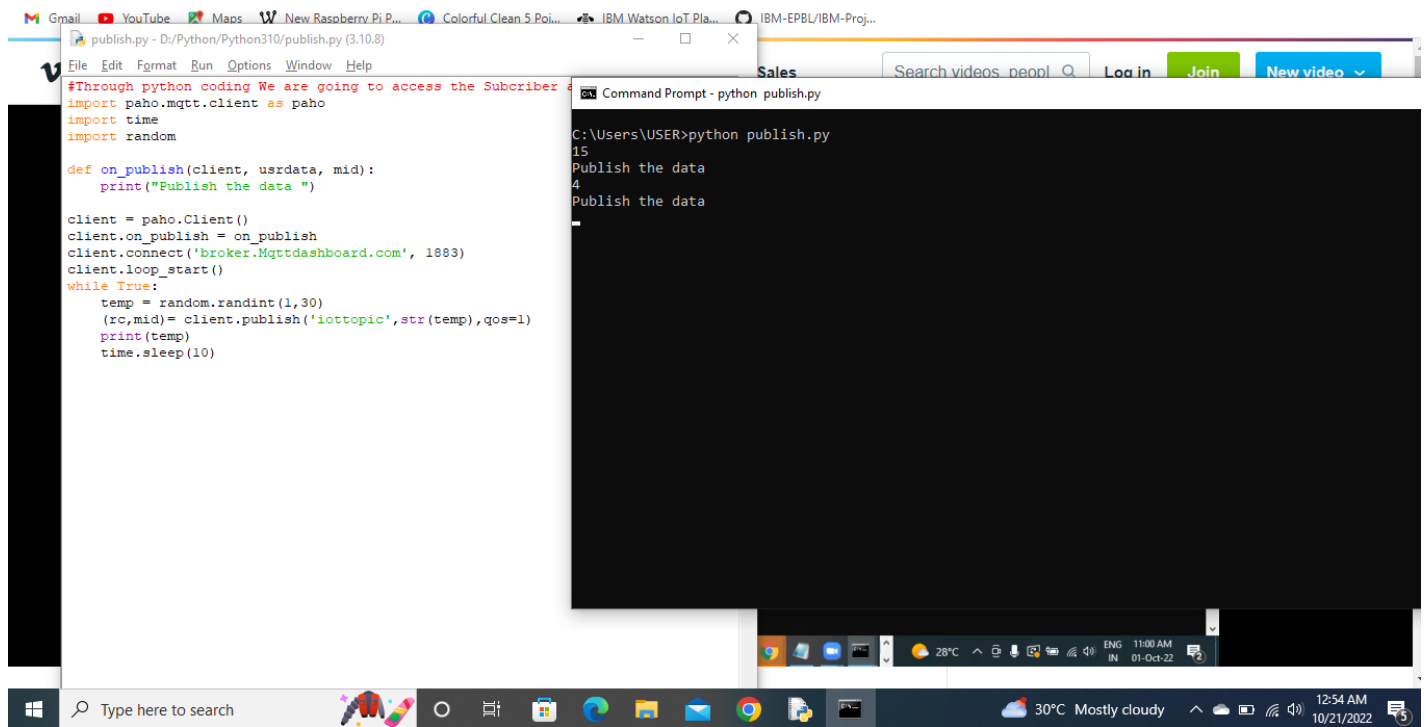
client = paho.Client()
client.on_publish = on_publish
client.connect('broker.mqttdashboard.com', 1883)
client.loop_start()
while True:
    temp = random.randint(1,30)
    (rc,mid)= client.publish('iottopic',str(temp),qos=1)
    print(temp)
    time.sleep(10)
```

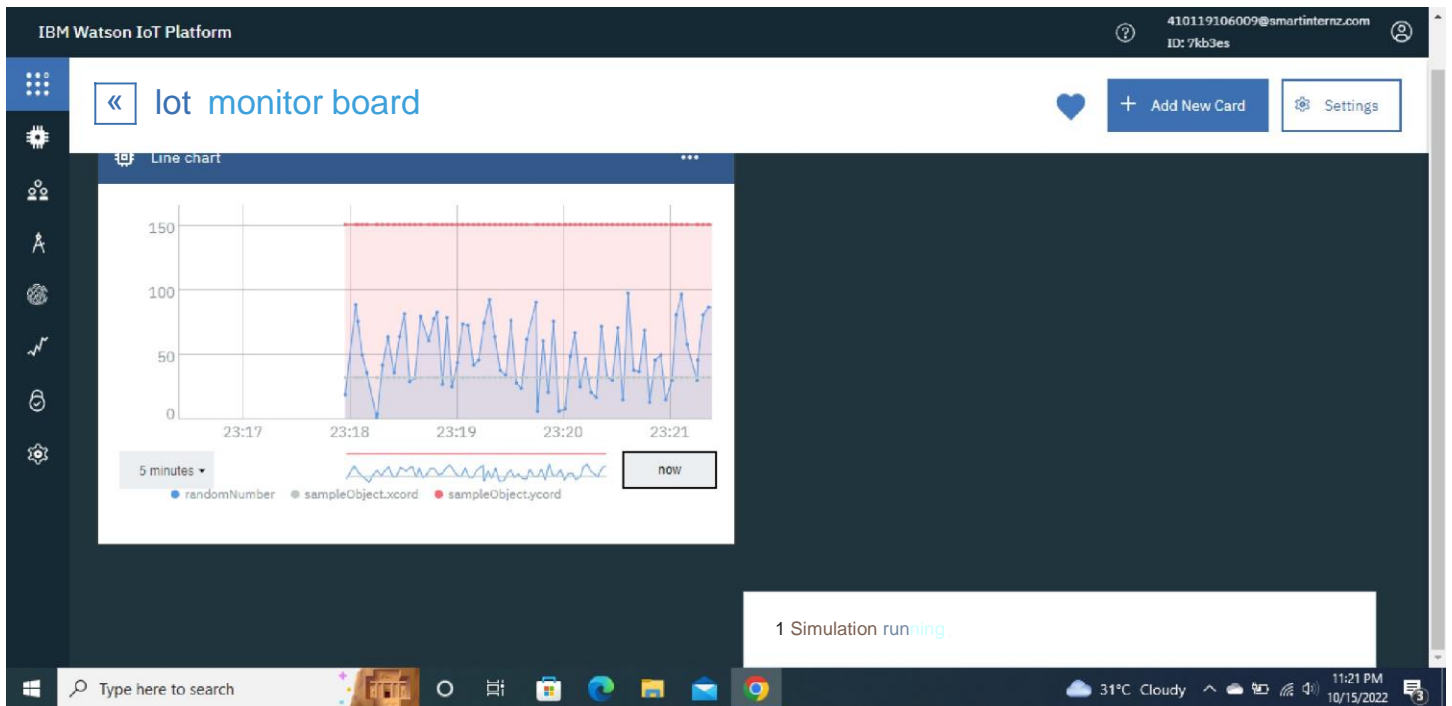
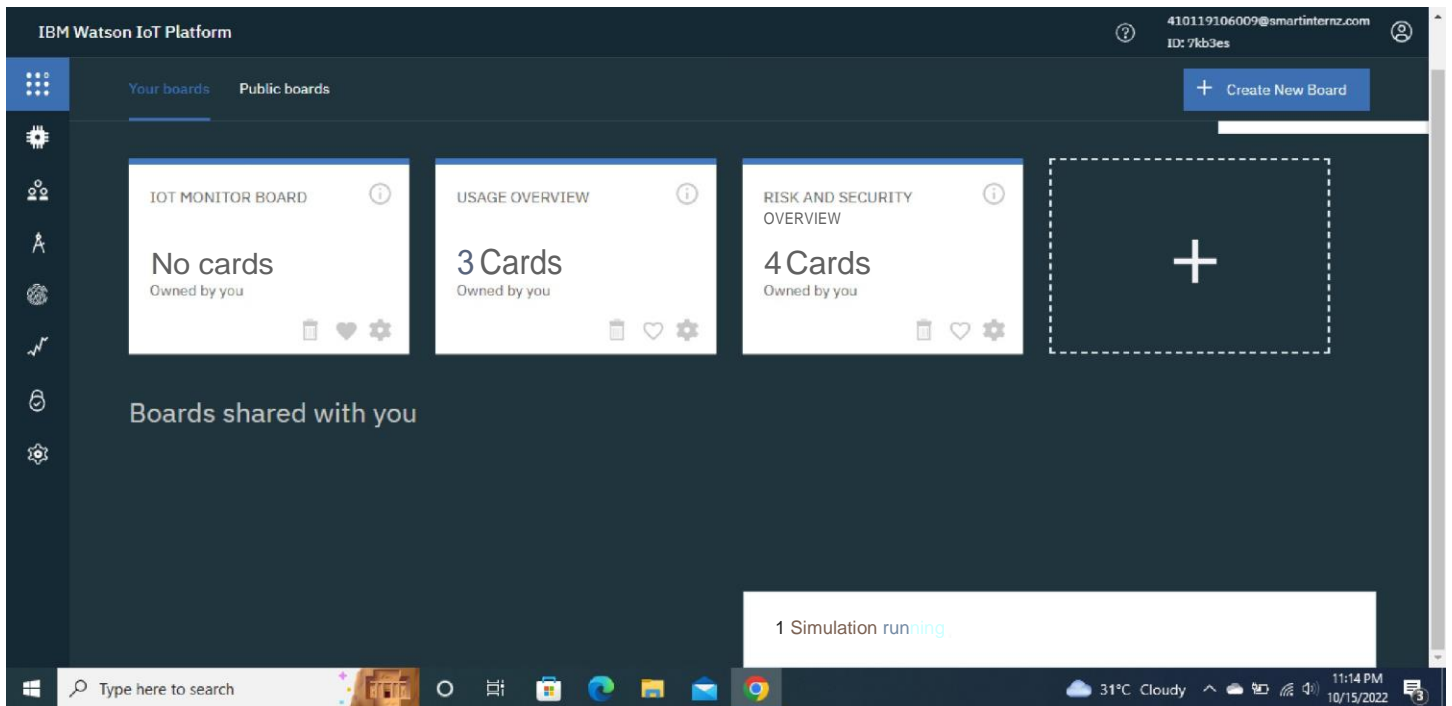
```
*untitled*
File Edit Format Run Options Window Help
import paho.mqtt.client as paho
def on_subscribe(client,userdata,mid,grated_qos):
    print("subscribe:" + str(mid)+str(grated_qos))

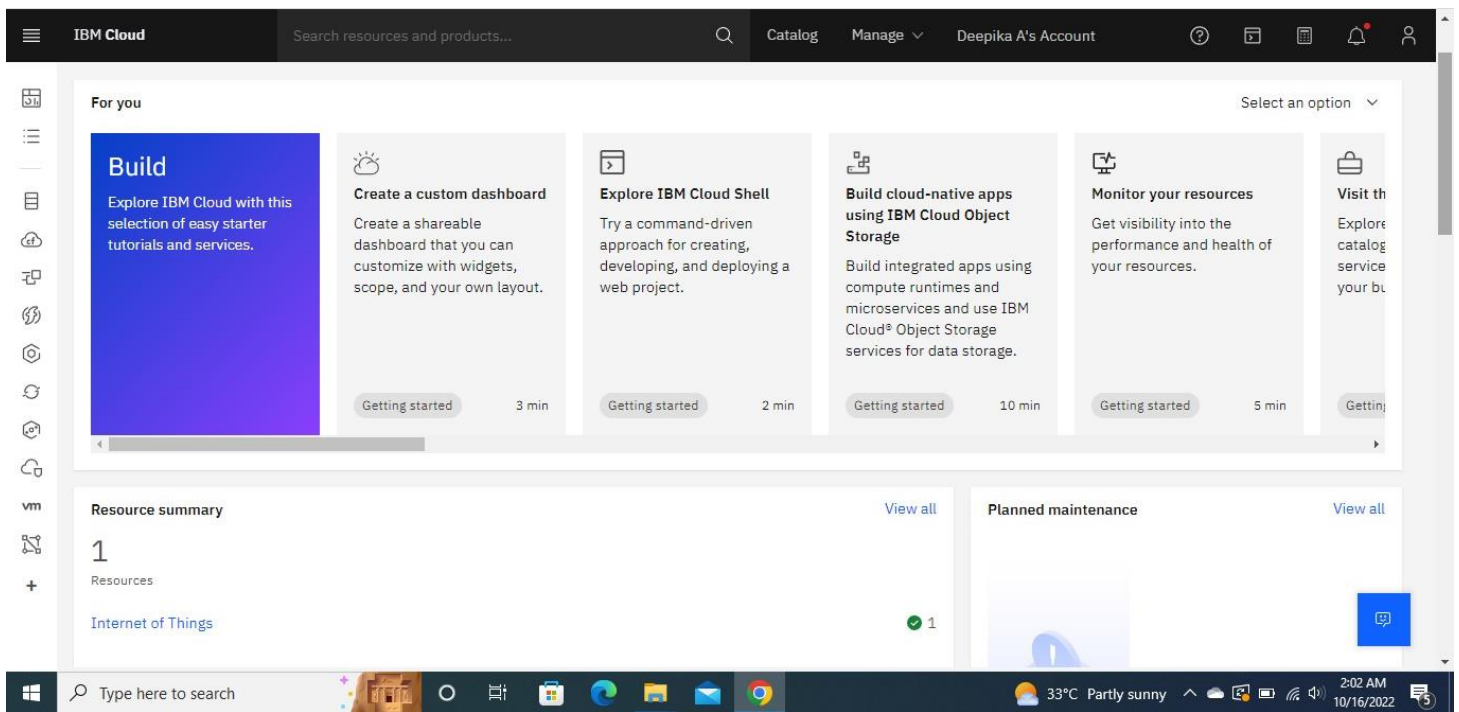
def on_message(client, userdata,msg):
    print(msg.topic + " " + str(msg.qos) + " " + str(msg.payload))

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

Windows taskbar: Type here to search, 30°C Mostly cloudy, 12:48 AM 10/21/2022







PROGRAM

#IBM
Watson
IOT
Platform

```
#pip install wiotp-sdk

import wiotp.sdk.device

import time

import random

myConfig = {
    "identity": {
        "orgId": "60ys35",
        "typeId": "iot",
        "deviceId": "4321",
    },
    "auth": {
        "token": "921"
    }
}
```

```

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()

```