Develop the Python Script

Date	09 November 2022
Team ID	PNT2022TMID42331
Project Name	Industry-specific intelligent fire management system

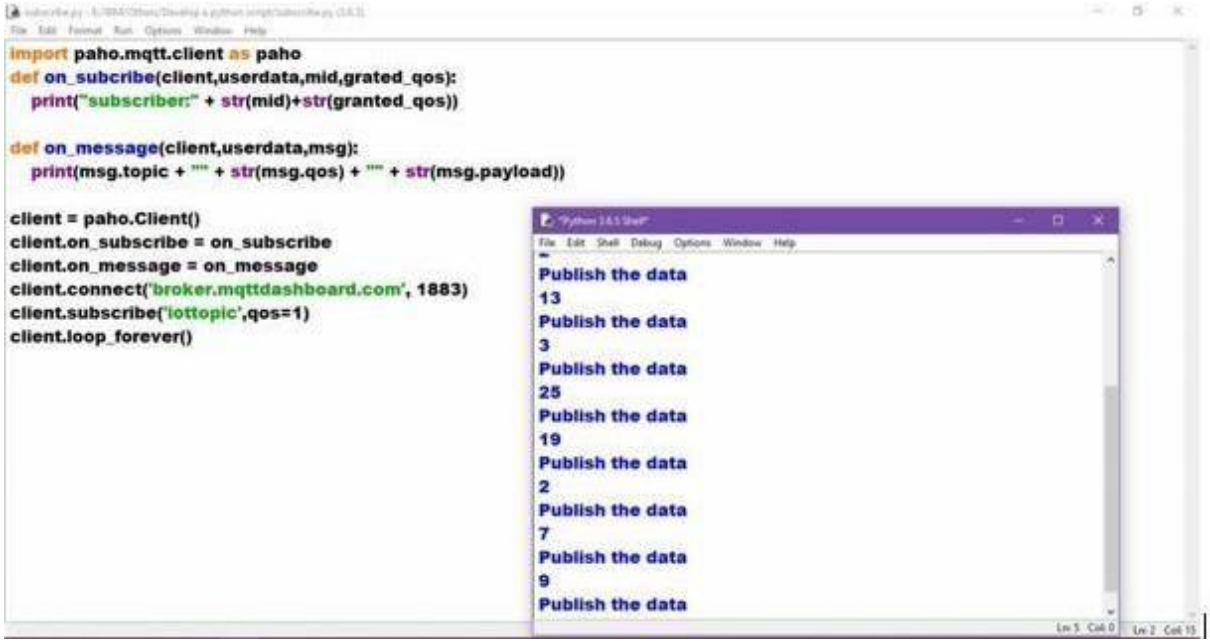
Publish data to IBM cloud

```
#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 (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
```

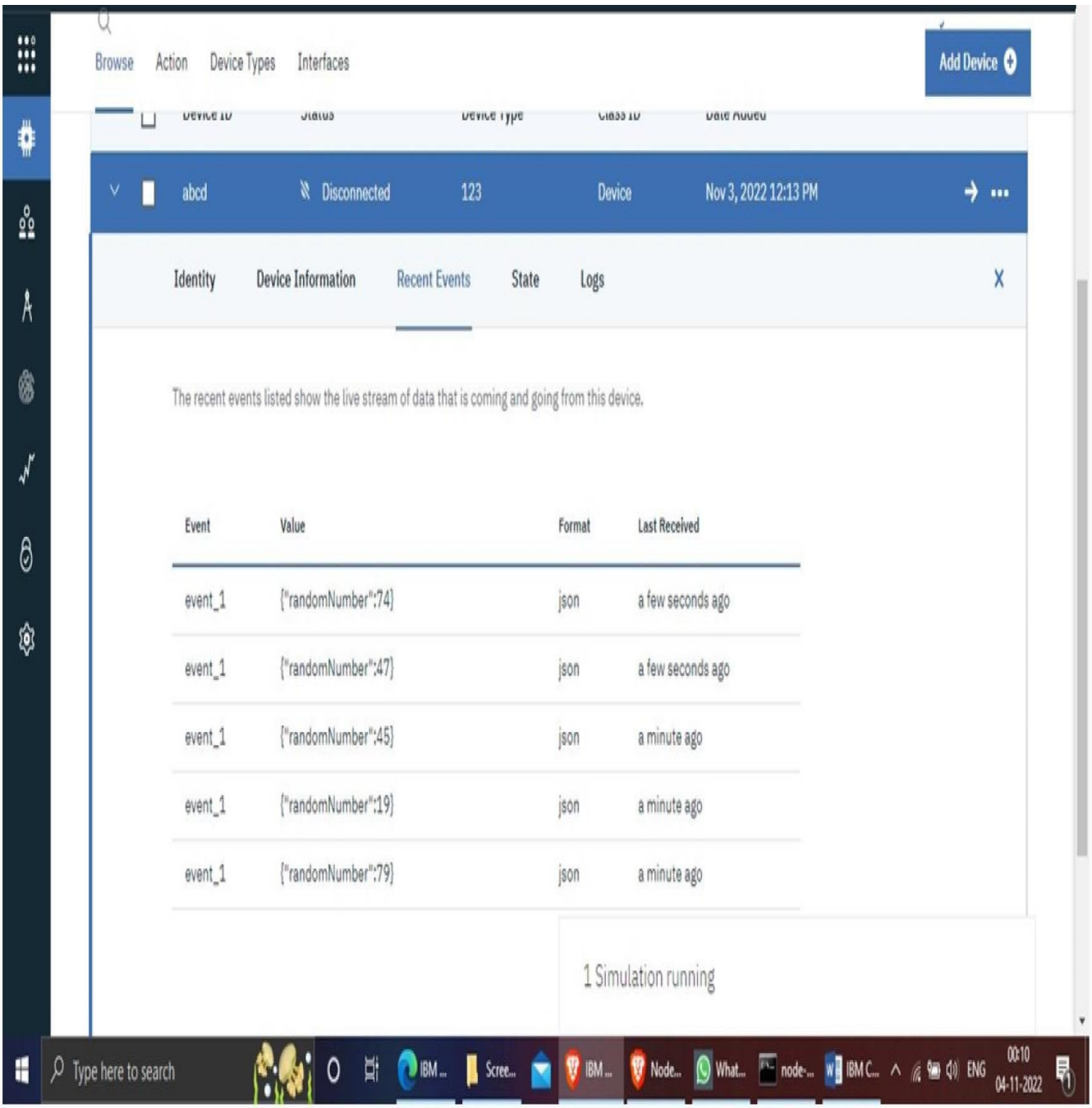


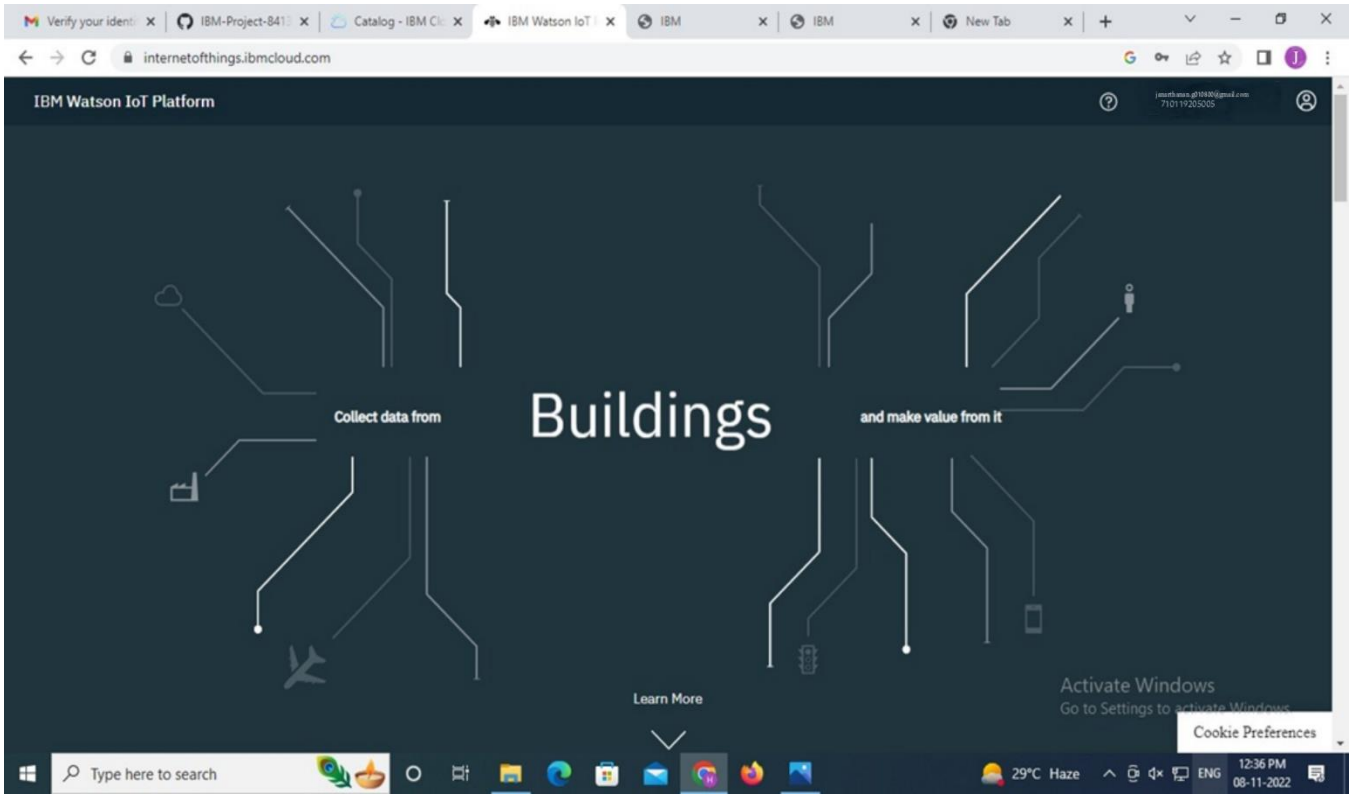
```
import paho.mqtt.client as paho
def on_subcribe(client,userdata,mid,grated_qos):
    print("subscriber:" + str(mid)+str(granted_qos))

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()
```

```
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
```


Browse
Action
Device Types
Interfaces
Add Device
Device ID
Status
Device Type
Class ID
Date Added
abcd
Disconnected
123
Device
Nov 3, 2022 12:13 PM
Identity
Device Information
Recent Events
State
Logs
X
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
event_1
{"randomNumber":74}
json
a few seconds ago
event_1
{"randomNumber":47}
json
a few seconds ago
event_1
{"randomNumber":45}
json
a minute ago
event_1
{"randomNumber":19}
json
a minute ago
event_1
{"randomNumber":79}
json
a minute ago
1 Simulation running
Type here to search
ENG
00:10
04-11-2022



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()
```