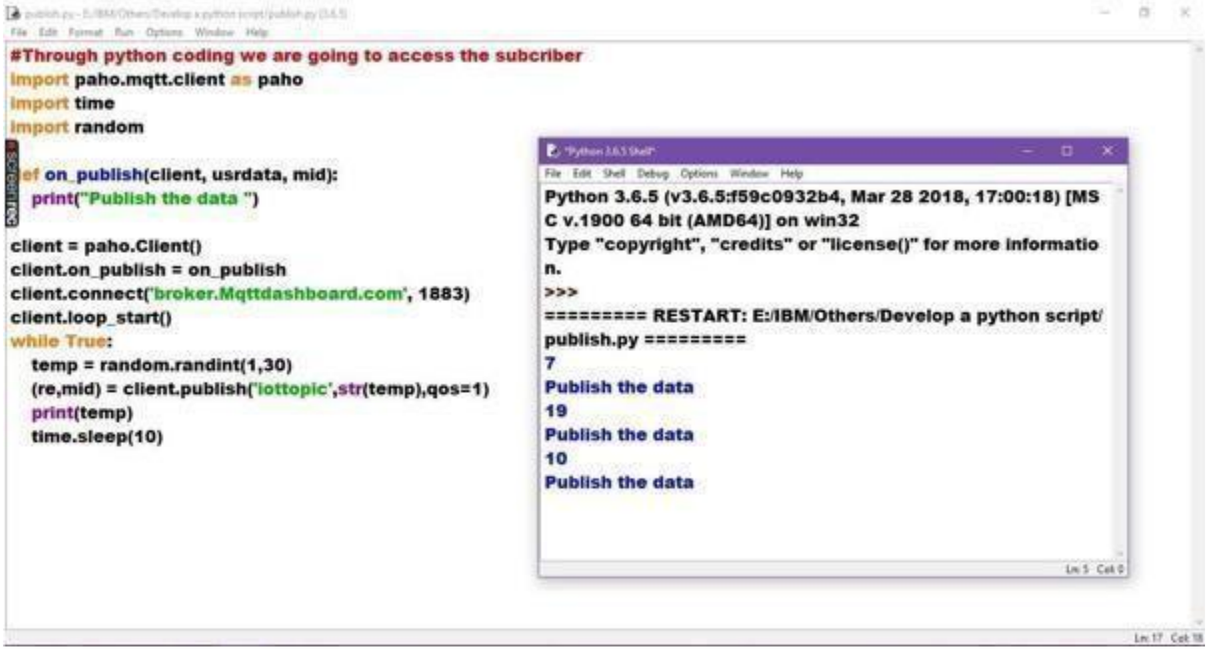
Develop the Python Script

(Publish data to IBM cloud)

Team ID	PNT2022TMID08358
Project Name	Industry-specific intelligent fire management system

Industry-specific intelligent fire management system

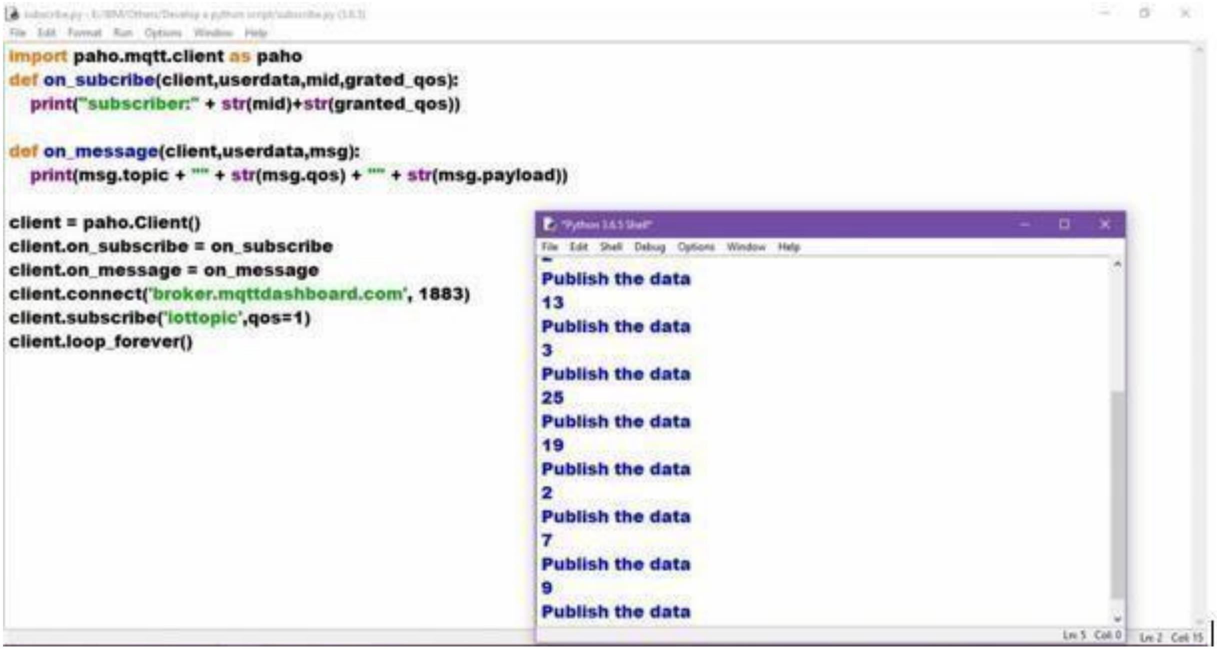


```
#Through python coding we are going to access the subcriber
import paho.mqtt.client as paho
import time
import random

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
```

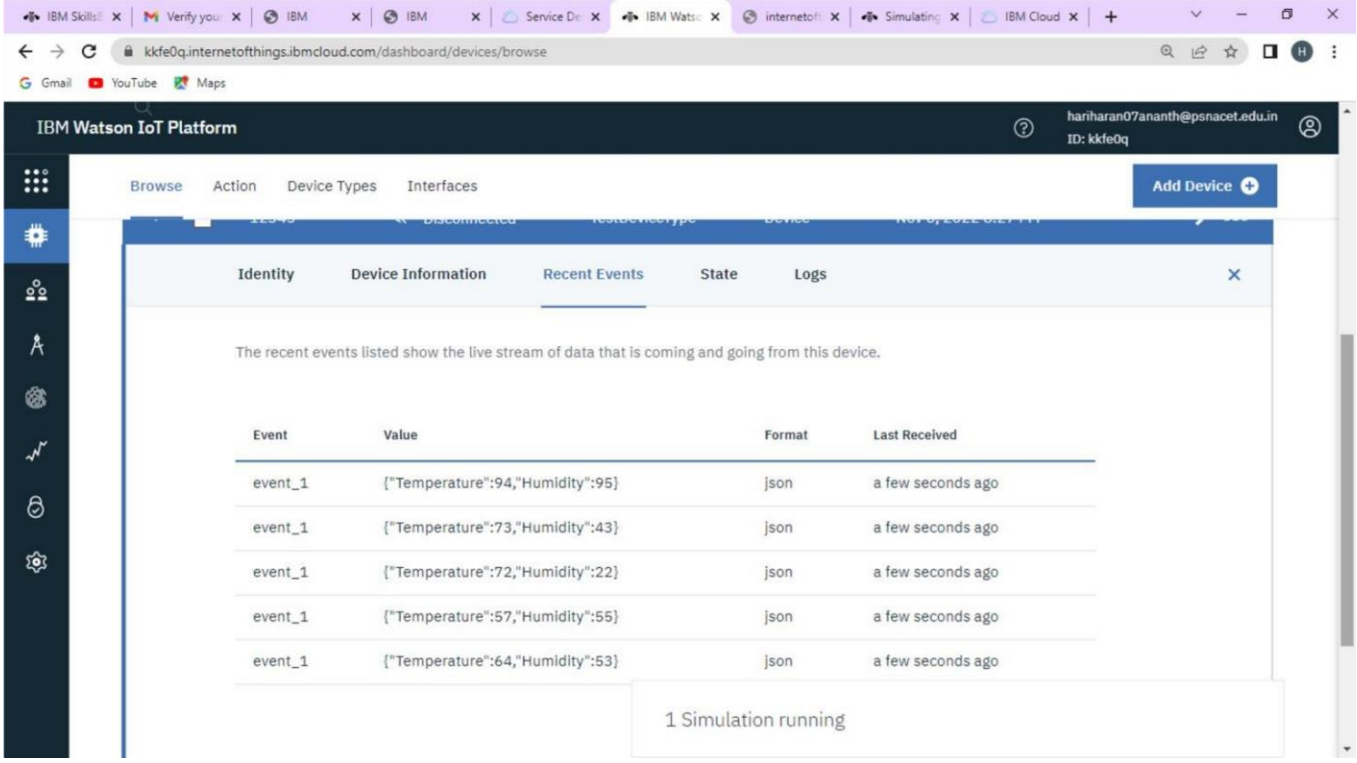


```
import paho.mqtt.client as paho
def on_subcribe(client,userdata,mid,grated_qos):
  print("subscriber:" + str(mid)+str(granted_qos))

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
```



kkfe0q.internetofthings.ibmcloud.com/dashboard/devices/browse

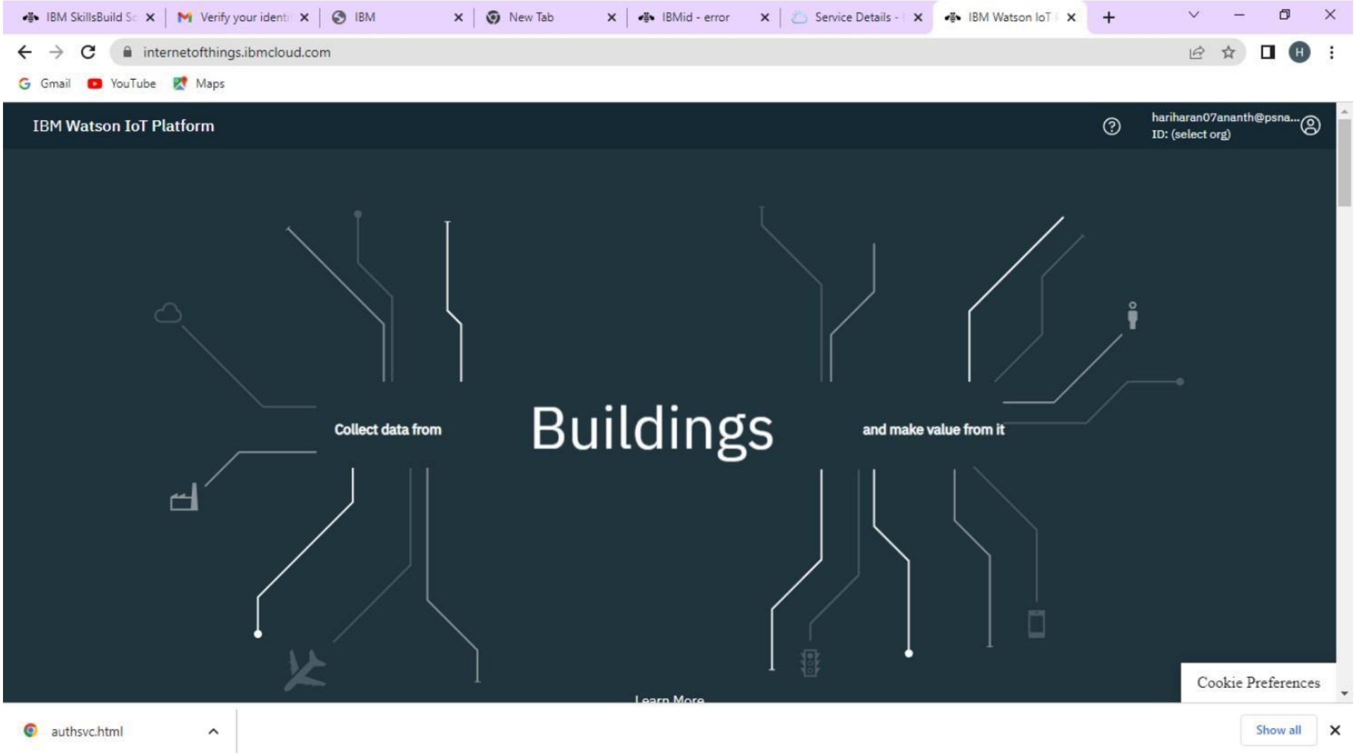
IBM Watson IoT Platform

hariharan07ananth@psnacet.edu.in
ID: kkfe0q

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	{"Temperature":94,"Humidity":95}	json	a few seconds ago
event_1	{"Temperature":73,"Humidity":43}	json	a few seconds ago
event_1	{"Temperature":72,"Humidity":22}	json	a few seconds ago
event_1	{"Temperature":57,"Humidity":55}	json	a few seconds ago
event_1	{"Temperature":64,"Humidity":53}	json	a few seconds ago

1 Simulation running



internetofthings.ibmcloud.com

IBM Watson IoT Platform

hariharan07ananth@psna...
ID: (select org)

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()
```