DEVELOP A PYTHON SCRIPT

Publish Data to the IBM Cloud

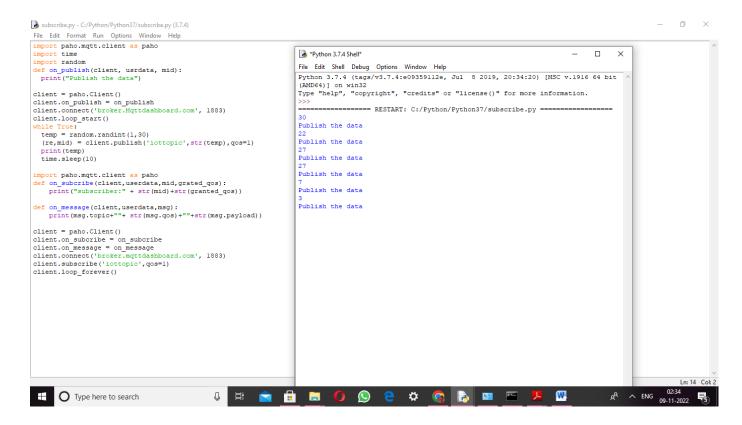
Date	31 october 2022
Team Id	PNT2022TMID42771
Project Name	Project - Signs with smart connectivity for
	Better road safety

Signs with smart connectivity for Better road safety

Python code to access subscriber:

```
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.Mgttdashboard.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)
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_subcribe = on_subcribe
client.on_message = on_message
```

client.connect('broker.mqttdashboard.com', 1883) client.subscribe('iottopic',qos=1) client.loop_forever()



PROGRAM:

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
  "orgId": "gsqz5f",
  "typeId": "NANDY",
  "deviceId":"12345" },
  "auth": { "token": "9876543210" }
}
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}

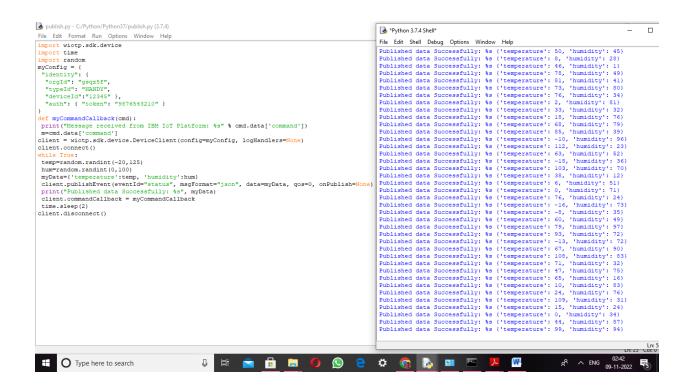
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)

print("Published data Successfully: %s", myData)

client.commandCallback = myCommandCallback

time.sleep(2)

client.disconnect()
```



Publish the data to the ibm cloud:

