## **Publish Data to the IBM Cloud**

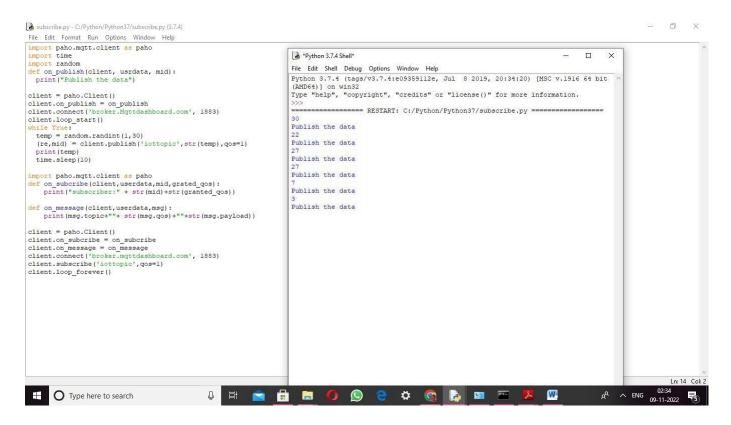
Date	4 November 2022
Team Id	PNT2022TMID16954
Project Name	Project - Signs with smart connectivity for
	Better road safety

# 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.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)
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}

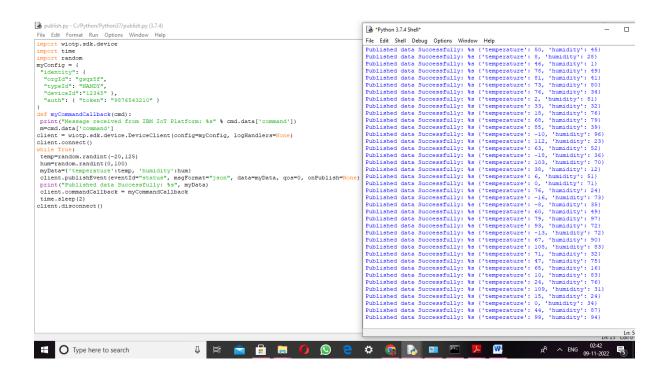
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)

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

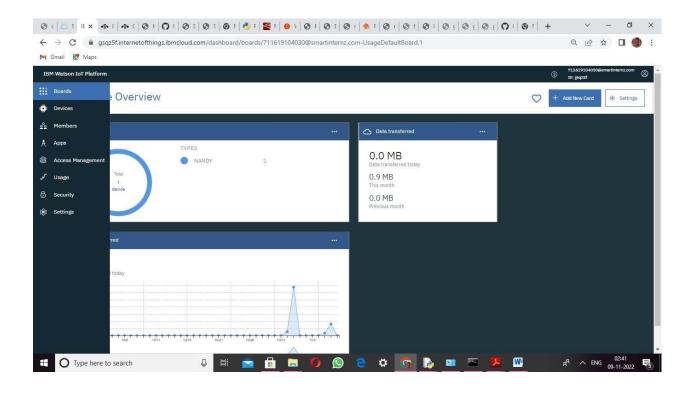
client.commandCallback = myCommandCallback

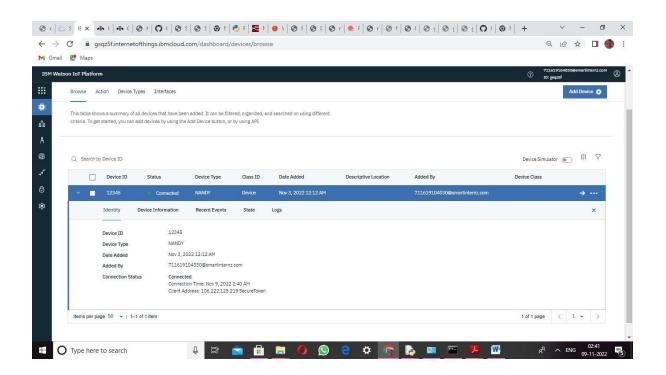
time.sleep(2)

client.disconnect()
```



## Publish the data to the ibm cloud:









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