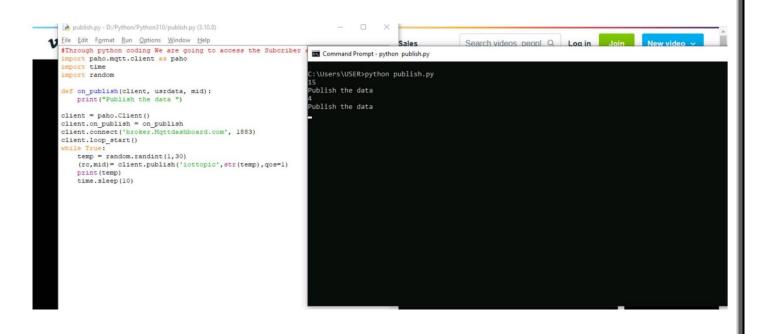
## DEVELOP THE PYTHON SCRIPT Publish data to the IBM Cloud

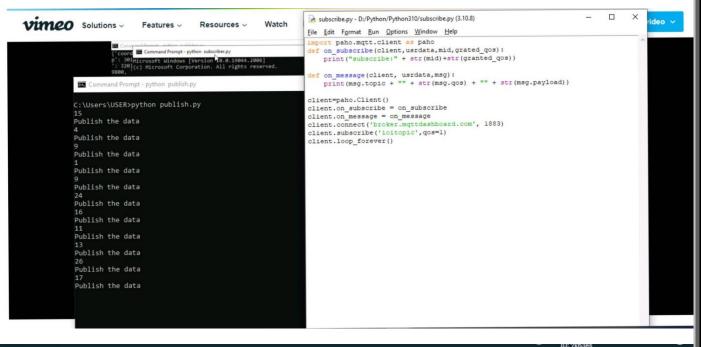
Team ID: PNT2022TMID12069

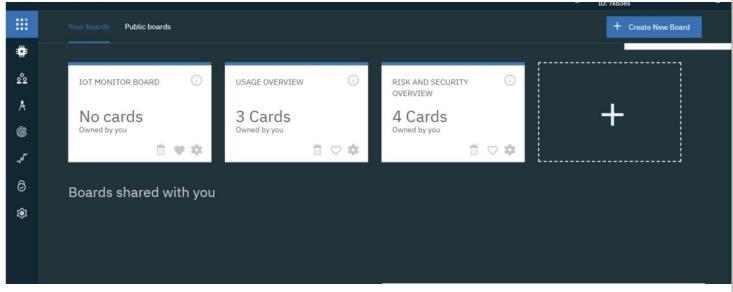
Project Title: SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY

TO Make a publisher and subscriber in the process of python and IBM cloud

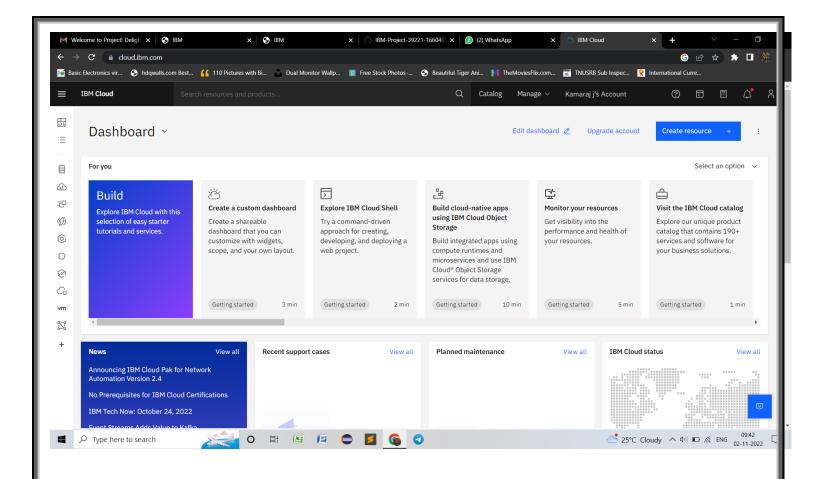
```
publish.py - v:/ Python/ Pythons IV/ publish.py (3. IV.6)
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                                                                                       *untitled*
                                                                                                                                                                                  П
   #Through python coding We are going to access the Subcriber and p
    import paho.mqtt.client as paho
                                                                                       import paho.mqtt.client as paho
   import time
                                                                                      def on_subscribe(client,usrdata,mid,grated_qos):
    print("subscribe:" + str(mid)+str(granted_qos))
   import random
   def on publish(client, usrdata, mid):
                                                                                      def on_message(client, usrdata,msg):
    print(msg.topic + "" + str(msg.qos) + "" + str(msg.payload))
       print ("Publish the data ")
   client = paho.Client()
                                                                                      client=paho.Client()
client.on subscribe = on subscribe
   client.on_publish = on_publish
client.connect('broker.Mqttdashboard.com', 1883)
                                                                                      client.on_message = on message
client.connect('broker.mqttdashboard.com', 1883)
   client.loop_start()
                                                                                      client.subscribe
        temp = random.randint(1,30)
(rc,mid) = client.publish('iottopic',str(temp),qos=1)
        time.sleep(10)
```











## **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()
```