DEVELOP A PYTHON SCRIPT (PUBLISH DATA TO IBM CLOUD)

DATE	16 NOVEMBER 2022
TEAM ID	PNT2022TMID20484
PROJECT NAME	INDUSTRY-SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM
MAXIMUM MARKS	4 MARKS

PROGRAM:

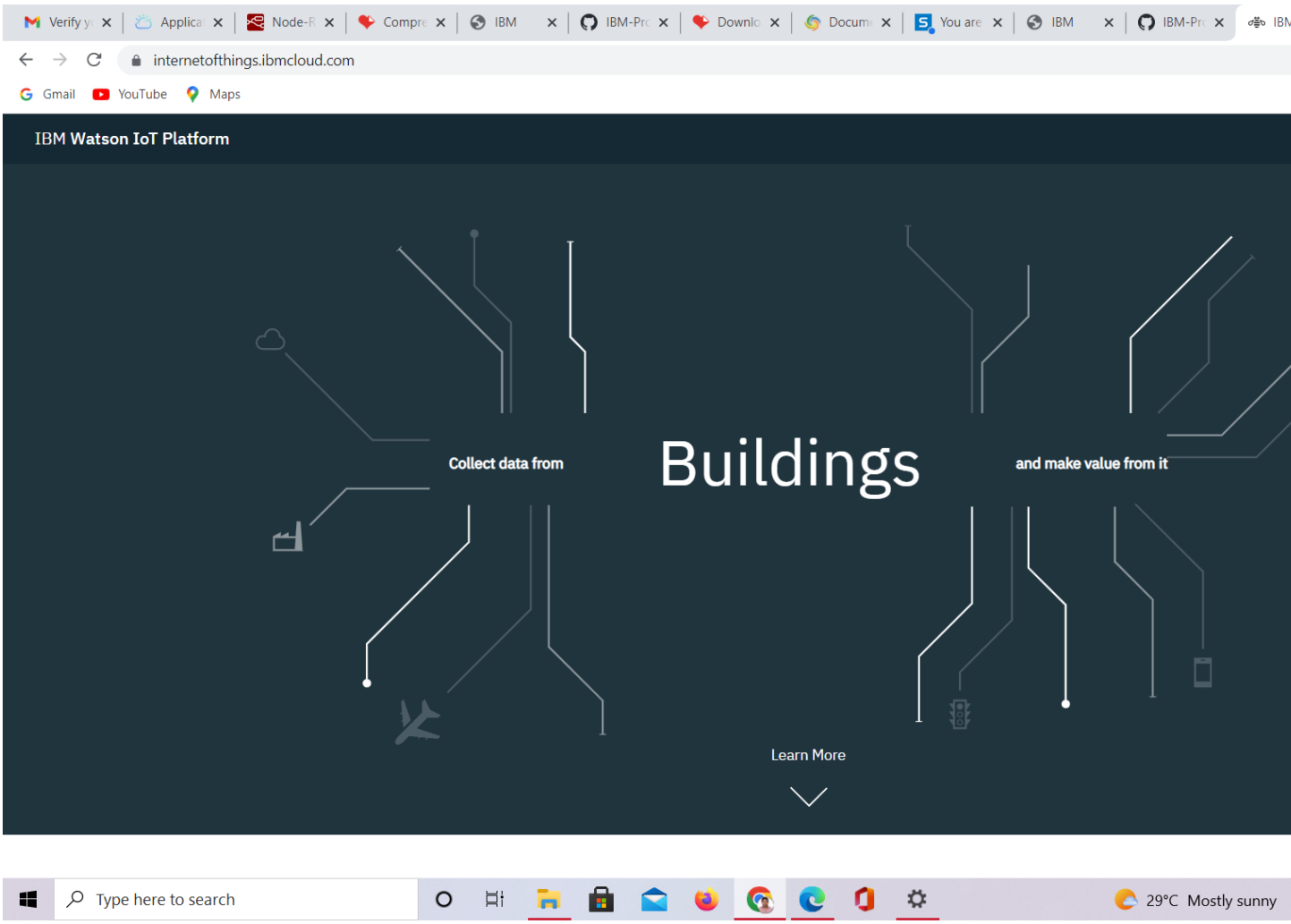
```
#IBM Watson IOT
Platform #pip install
wiotp-sdk import
wiotp.sdk.device
import time import
random
myConfig = {
   "identity": {
      "orgId":
      "kojkab",
      "typeId":
      "1234",
```

```
        "deviceId":"lee1
        23"
    },
    "auth": {
        "token":
    "987456321" }
}

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()
```


internetofthings.ibmcloud.com
Gmail
YouTube
Maps
IBM Watson IoT Platform
Collect data from
Buildings
and make value from it
Learn More
Type here to search
29°C Mostly sunny


#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:
C v.1900 64 bit (AMD
Type "copyright", "c
n.
>>>
========== RESTART
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
```