PYTHON SCRIPT TO PUBLISH DATA TO IBM CLOUD

Date	13 NOVEMBER 2022
Team ID	PNT2022TMID43114
Project Name	SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES
Maximum marks	8 Marks

PYTHON CODE:

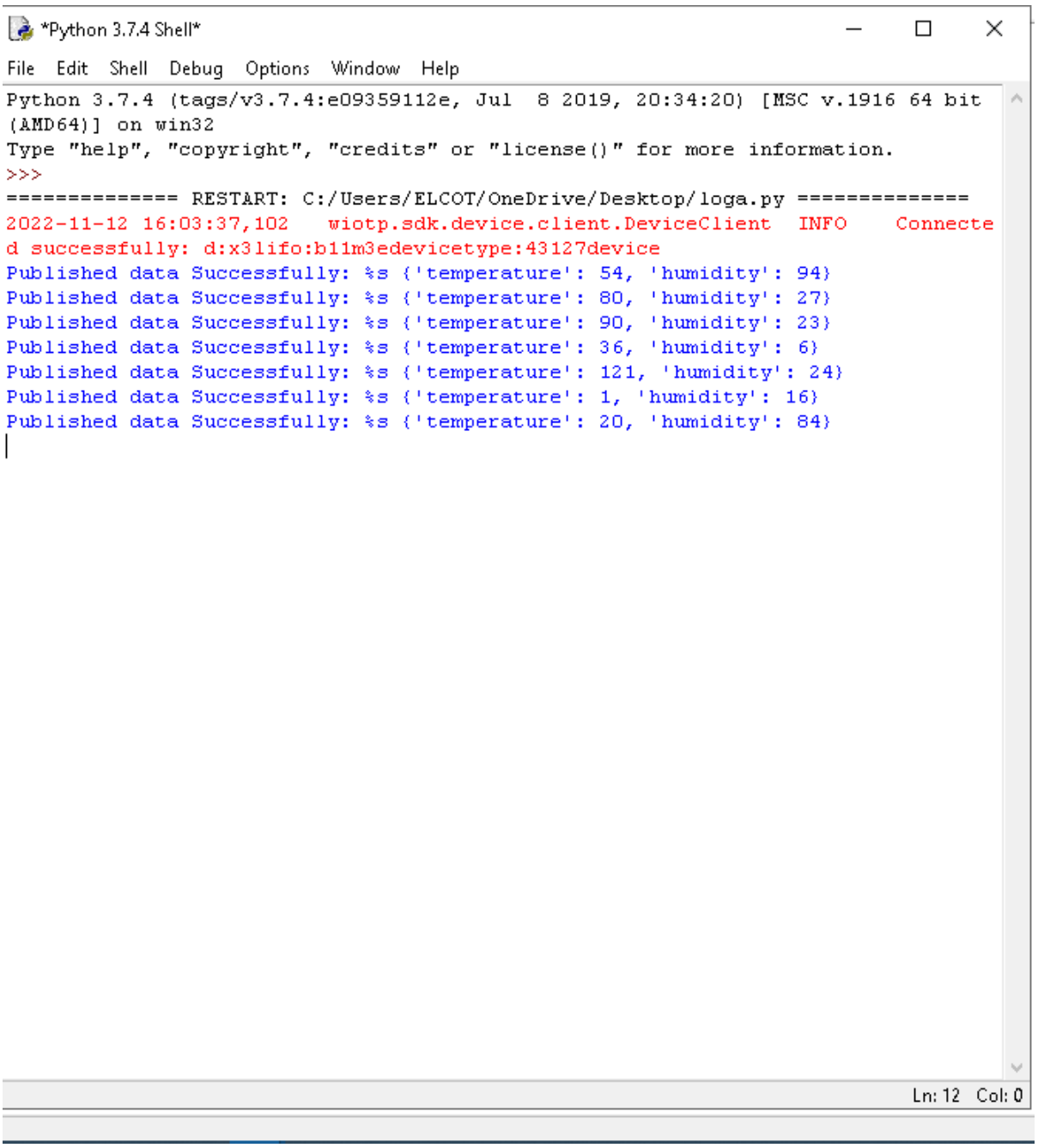
```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "80bbqy",
        "typeId": "cse2019",
        "deviceId":"ganesh1601"
    },
    "auth": {
        "token": "!8-vkyUJA+QxM-L+uf"
    }
}
```

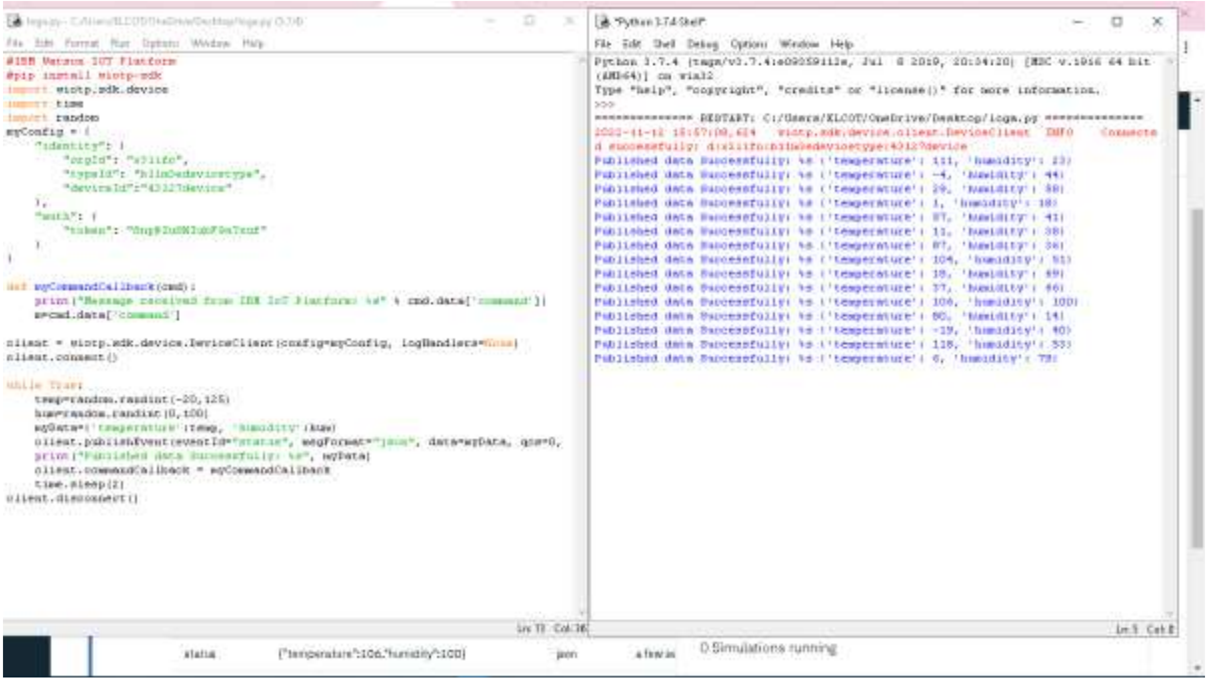
```
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" %
cmd.data['command'])
    m=cmd.data['command']


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()
```

PYTHON CODE:

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "x1iifo",
        "typeId": "b11mledevicetype",
        "deviceId":"41127device"
    },
    "auth": {
        "token": "[illegible]"
    }
}

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()
```

PYTHON OUTPUT:





Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
"identity": {
"typeId": "b11n0edevicetype",
"deviceId":"43127device"
},
"auth": {
}
}
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,
print("Published data Successfully: %s", myData)
client.commandCallback = myCommandCallback
time.sleep(2)
client.disconnect()
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
============== RESTART: C:/Users/KLCOT/OneDrive/Desktop/iota.py ==============
Published data Successfully: %s {'temperature': 111, 'humidity': 23}
Published data Successfully: %s {'temperature': -4, 'humidity': 44}
Published data Successfully: %s {'temperature': 104, 'humidity': 51}
Published data Successfully: %s {'temperature': 106, 'humidity': 100}
Published data Successfully: %s {'temperature': 118, 'humidity': 53}
status
{"temperature":106,"humidity":100}
json
0 Simulations running

IBM WATSON OUTPUT: