

DELIVERY OF SPRINT - 2

Date	03 November 2022
Team ID	PNT2022TMID04344
Project Name	Smart Waste Management System For Metropolitan Cities
Maximum Marks	4 Marks

**Develop a python script to publish the location details to the
IBM IoT platform**

I. Python Code :

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "ede5q6",
        "typeId": "Locator",
        "deviceId": "54321"
    },
    "auth": {
        "token": "-DO!)E9jNUw7gpC57O"
    }
}

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:

city = "London"

lat = 34.8976508

long = 67.9764532

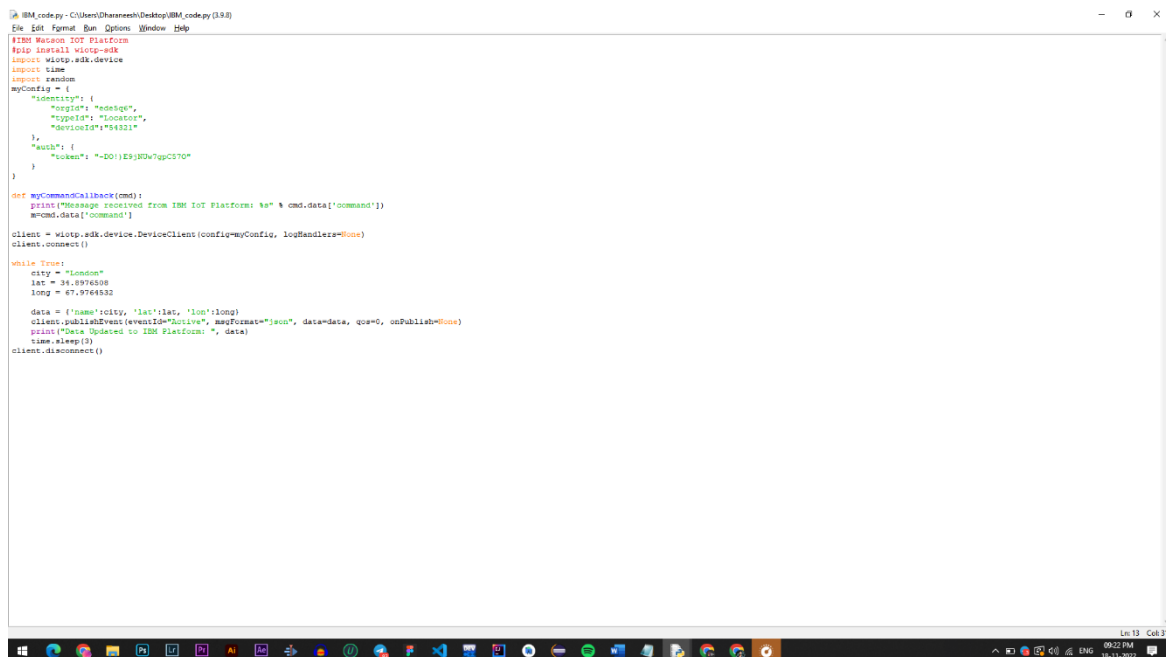
data = {'name':city, 'lat':lat, 'lon':long}

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

print("Data Updated to IBM Platform: ", data)

time.sleep(3)

client.disconnect()



```
IBM_code.py - C:\Users\Sharanesh\Desktop\ibm_code.py (3.8)
File Edit Format Run Options Window Help
# IBM Watson IoT Platform
# pip install wattp-sdk
import wattp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "edgeorg",
        "typeId": "location",
        "deviceId": "548321"
    },
    "auth": {
        "token": "2011E9J80w7qpC970"
    }
}

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

client = wattp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    city = "London"
    lat = 34.8976508
    long = 67.9764532

    data = {'name':city, 'lat':lat, 'lon':long}
    client.publishEvent(eventId="Active", msgFormat="json", data=data, qos=0, onPublish=None)
    print("Data Updated to IBM Platform: ", data)
    time.sleep(3)
client.disconnect()
```

II. IBM Watson IoT Platform results:

The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes tabs for Browse, Action, Device Types, and Interfaces. A search bar is present, and a 'Device Simulator' toggle is visible. The main content area shows a list of devices. The selected device, ID 54321, is in a 'Connected' state and is of type 'Locator'. Below the device list, a 'Recent Events' tab is active, showing a stream of data events. The events are listed in a table with columns for Event, Value, Format, and Last Received. The events are all 'Active' and contain JSON data representing location coordinates. The bottom of the dashboard shows pagination information: 'Items per page: 50' and '1-2 of 2 items'.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By	Device Class
12345	Disconnected	MyTesting	Device	16 Nov 2022 14:31		dharamneshk1.9cse@kongu.edu	
54321	Connected	Locator	Device	16 Nov 2022 07:03		dharamneshk1.9cse@kongu.edu	

Event	Value	Format	Last Received
Active	{"name":"London","lat":34.8976508,"lon":67.97...	json	a few seconds ago
Active	{"name":"London","lat":34.8976508,"lon":67.97...	json	a few seconds ago
Active	{"name":"London","lat":34.8976508,"lon":67.97...	json	a few seconds ago
Active	{"name":"London","lat":34.8976508,"lon":67.97...	json	a few seconds ago
Active	{"name":"London","lat":34.8976508,"lon":67.97...	json	a few seconds ago