Team ID	PNT2022TMID15172
Project Name	Project : Smart Waste Management
	System For Metropolitan Cities

## <u>Develop A Python Script: Location (latitude & longitude) data</u> <u>PYTHON CODE:</u>

```
import wiotp.sdk.device
import time
import json
myConfig = {
  "identity": {
    "orgId": "ffw1lq",
    "typeId": "Raspberry-pi",
    "deviceId":"12345"
  },
  "auth": {
    "token": "12345678"
  }
}
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
  name="smartbridge"
  latitude=17.4225176
  longitude=70.5450042
  myData={'name': 'name', 'lat': latitude, 'lon': longitude}
  client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
   onPublish=None)
```

### print ("Published data to IBM iot platform: %s", myData)

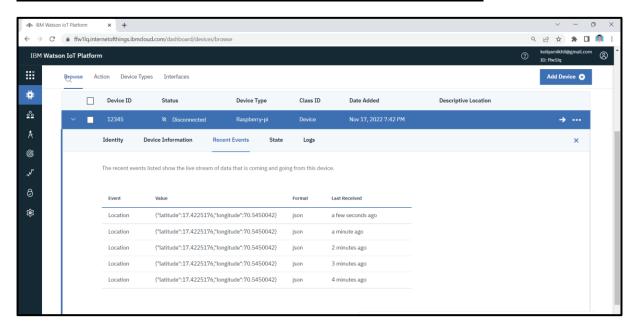
#### time.sleep (5)

#### client.disconnect ()

```
wiotp.sdk.device
         ison
myConfig =
      "identity": {
    "orgId": "ffwllq",
    "typeId": "Raspberry-pi",
          "deviceId":"12345"
     },
"auth": {
           "token": "12345678"
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
     e True:
name="smartbridge
     latitude=17.4225176
     longitude=70.5450042
     myData={'name':
                           'name', 'lat': latitude, 'lon': longitude}
     mybeta-{ name: name; lat: latitude, fon: longitude; client.publishEvent(eventIde="status", msgFormat="json", data=myData, qos=0, onPublish=None) print ("Published data to IBM iot platform: %s", myData)
     time.sleep (5)
client.disconnect ()
```

```
*Pvthon 3.7.0 Shell
File Edit Shell Debug Options Window Help
           = RESTART: E:\Koliyar Nikhil Durairaj\IBM\Sensor Data.py
2022-11-17 15:25:38,485 wiotp.sdk.de
successfully: d:ffwllq:Raspberry-pi:12345
                         wiotp.sdk.device.client.DeviceClient INFO
                                                                          Connected
Published data to IBM iot platform: %s {'name': 'name', 'lat': 17.4225176, 'lon':
70.54500423
Published data to IBM iot platform: %s {'name': 'name'. 'lat': 17.4225176. 'lon':
Published data to IBM iot platform: %s {'name': 'name', 'lat': 17.4225176, 'lon':
70.54500421
Published data to IBM iot platform: %s {'name': 'name', 'lat': 17.4225176, 'lon':
70.5450042}
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70.5450042}
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70.5450042}
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70.5450042}
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70.54500421
Published data to IBM iot platform: %s {'name': 'name', 'lat': 17.4225176, 'lon':
70.5450042}
Published data to IBM iot platform: %s {'name': 'name', 'lat': 17.4225176, 'lon':
70.54500421
Published data to IBM iot platform: %s {'name': 'name', 'lat': 17.4225176, 'lon':
Published data to IBM iot platform: %s {'name': 'name', 'lat': 17.4225176, 'lon':
70.54500421
Published data to IBM iot platform: %s {'name': 'name', 'lat': 17.4225176, 'lon':
70.5450042}
Published data to IBM iot platform: %s {'name': 'name', 'lat': 17.4225176, 'lon':
70.5450042}
```

### **Publishing values to the IBM IoT Platform:**



## <u>Develop A Python Script: Random Sensor data</u> <u>PYTHON CODE:</u>

```
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
    "orgId": "ffw1lq",
    "typeId": "Raspberry-pi",
    "deviceId":"12345"
  },
  "auth": {
    "token": "12345678"
  }
}
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(5)
client.disconnect()
```

```
File Edit Shell Debug Options Window Help

***Time Edit Shell Debug
```

# **Publishing values to the IBM IoT Platform:**

