

Develop The Python Script

Date	03 October 2022
Team ID	PNT2022TMID25456
Project Name	Smart Solutions For Railways
Maximum Marks	2 Marks

Program:

```
import wiotp.sdk.device
import time
import random

myConfig = {
    "identity": {
        "orgId": "rkm7j0",
        "typeId": "Type1",
        "deviceId": "121212"
    },
    "auth": {
        "token": "87654321"
    }
}

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()

def pub (data):
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print ("Published data Successfully: %s", myData)

while True:
    myData={'name': 'Train1', 'lat': 17.6387448, 'lon': 78.4754336}
    pub (myData)
    time.sleep (3)

    #myData={'name': 'Train2', 'lat': 17.6387448, 'lon': 78.4754336}
    #pub (myData)
    #time.sleep (3)

    myData={'name': 'Train1', 'lat': 17.6341908, 'lon': 78.4744722}
```

```

pub(myData)

time.sleep(3)

myData={'name': 'Train1', 'lat': 17.6340889, 'lon': 78.4745052}

pub (myData)

time.sleep (3)

myData={'name': 'Train1', 'lat': 17.6248626, 'lon': 78.4720259}

pub (myData)

time.sleep (3)

myData={'name': 'Train1', 'lat': 17.6188577, 'lon': 78.4698726}

pub (myData)

time.sleep (3)

myData={'name': 'Train1', 'lat': 17.6132382, 'lon': 78.4707318}

pub (myData)

time.sleep (3)

client.commandCallback = myCommandCallback

client.disconnect ()

```

OUTPUT:

```

chandrababhu::Develop The Python Script 12:35:32$ python3 code.py
2022-11-19 12:37:37,781 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:rkm7j0:Type1:121212
Published data Successfully: %s {'name': 'Train1', 'lat': 17.6387448, 'lon': 78.4754336}
Published data Successfully: %s {'name': 'Train1', 'lat': 17.6341908, 'lon': 78.4744722}
Published data Successfully: %s {'name': 'Train1', 'lat': 17.6340889, 'lon': 78.4745052}
Published data Successfully: %s {'name': 'Train1', 'lat': 17.6248626, 'lon': 78.4720259}
Published data Successfully: %s {'name': 'Train1', 'lat': 17.6188577, 'lon': 78.4698726}
Published data Successfully: %s {'name': 'Train1', 'lat': 17.6132382, 'lon': 78.4707318}
Published data Successfully: %s {'name': 'Train1', 'lat': 17.6387448, 'lon': 78.4754336}

```

IBM Watson IoT Platform

sec19it087@sairamtap.edu.in
ID: rkm7j0

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Device Drilldown - 121212

Connection Information

Recent Events

State

Device Information

Metadata

Diagnostics

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Connection Information

Basic connection information about this device.

Device ID

121212

Device Type

Type1

Date Added

Nov 19, 2022 11:58 AM

Added By

sec19it087@sairamtap.edu.in

Connection Status

Disconnected

Last Connected: Nov 19, 2022 12:37 PM

Client Address: 157.51.136.182 SecureToken

Duration: a few seconds

Data Transferred: 990 B

Recent Events

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
status	{"name":"Train1","lat":17.6387448,"lon":78.475...	json	a few seconds ago
status	{"name":"Train1","lat":17.6132382,"lon":78.470...	json	a few seconds ago
status	{"name":"Train1","lat":17.6188577,"lon":78.469...	json	a few seconds ago

← → ↻ 🔒 rkm7j0.internetofthings.ibmcloud.com/dashboard/devices/drilldown/Type1:121212?returnTo=/devices/browse

IBM Watson IoT Platform

sec19i087@sairamap.edu.in ID: rkm7j0

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State

This table shows a list of data points that are reported by this device.

⚡ Showing Raw Data | No Interfaces Available

Property	Value	Type	Event	Last Received
name	Train1	String	status	a few seconds ago
lat	17.6188577	Number	status	a few seconds ago
lon	78.4698726	Number	status	a few seconds ago

Device Information

View basic device information including location and manufacturer.

Edit Device Information