

Develop The Python Script

Date	13 november 2022
Team ID	PNT2022TMID38287
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:

```

chandraprabhu::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}

```

