

### **SPRINT - 3**

<b>TEAM ID</b>	<b>PNT2022TMID43222</b>
<b>PROJECT NAME</b>	<b>PERSONAL ASSISTANCE FOR SENIORS WHO ARESELF RELIANT</b>

#### **CODE:**

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "0j9nst",
        "typeId": "NodeMCU",
        "deviceId": "557353"
    },
    "auth": {
        "token": "735591@28"
    }
}
def myCommandCallback(cmd):
    print("Message received from IBM Plateform:" % cmd.data['command'])
    m=cmd.data['command']
    client = wiotp.sdk.device.DeviceClient(config=myConfig,logHandlers=None)
```

```
client.connect()
```

```
while True:
```

```
    tablet=["Paracetamol","Aspirine","Azithral","Asthalin","Sinarest"]
```

```
    med icinetime=[9.00,12.00,13.00,15.00,19.30]
```

```
    name = "yasodha"
```

```
    medicine=random.choice(tablet)
```

```
    med icinetime=random.choice(medicinetime)
```

```
    mydata = {'Patient Name': name, 'Medicine Name': medicine, 'Time':  
    med icinetime}
```

```
    client.publishEvent("IoT Sensor", "json", data=mydata, qos=0,  
    onPublish=None)
```

```
    print("Data published to IBM IOT platform :", mydata)
```

```
    time.sleep(5)
```

```
client.disconnect()
```

## INPUT:

```
s3.py - C:/Users/sathya R/OneDrive/Documents/IBM FOLDER/s3.py (3.7.0)
File Edit Format Run Options Window Help

import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "0j9nst",
        "typeId": "NodeMCU",
        "deviceId": "557353"
    },
    "auth": {
        "token": "735591@28"
    }
}
def myCommandCallback(cmd):
    print("Message received from IBM Platform:" % cmd.data["command"])
    m=cmd.data["command"]
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    tablet=["Paracetamol","Aspirine","Azithral","Asthalin","Sinarest"]
    medicinetime=[9.00,12.00,13.00,15.00,19.30]
    name = "yasodha"
    medicine=random.choice(tablet)
    medicinetime=random.choice(medicinetime)
    mydata = {'Patient Name': name, 'Medicine Name': medicine, 'Time': medicinetime}
    client.publishEvent("IoT Sensor", "json", data=mydata, qos=0, onPublish=None)

    print("Data published to IBM IOT platform :", mydata)
    time.sleep(5)
client.disconnect()
```

## OUTPUT:

```
*Python 3.7.0 Shell*
File Edit Shell Debug Options Window Help

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/sathya R/OneDrive/Documents/IBM FOLDER/s3.py =====
2022-11-24 17:33:02.386 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:0j9nst:NodeMCU:557353Data published to IBM IOT platform :
{'Patient Name': 'yasodha', 'Medicine Name': 'Asthalin', 'Time': 15.0}
Data published to IBM IOT platform : {'Patient Name': 'yasodha', 'Medicine Name': 'Sinarest', 'Time': 13.0}
Data published to IBM IOT platform : {'Patient Name': 'yasodha', 'Medicine Name': 'Sinarest', 'Time': 15.0}
Data published to IBM IOT platform : {'Patient Name': 'yasodha', 'Medicine Name': 'Aspirine', 'Time': 13.0}
Data published to IBM IOT platform : {'Patient Name': 'yasodha', 'Medicine Name': 'Azithral', 'Time': 12.0}
Data published to IBM IOT platform : {'Patient Name': 'yasodha', 'Medicine Name': 'Azithral', 'Time': 12.0}
Data published to IBM IOT platform : {'Patient Name': 'yasodha', 'Medicine Name': 'Aspirine', 'Time': 12.0}
Data published to IBM IOT platform : {'Patient Name': 'yasodha', 'Medicine Name': 'Sinarest', 'Time': 13.0}
Data published to IBM IOT platform : {'Patient Name': 'yasodha', 'Medicine Name': 'Asthalin', 'Time': 12.0}
Data published to IBM IOT platform : {'Patient Name': 'yasodha', 'Medicine Name': 'Sinarest', 'Time': 13.0}
Data published to IBM IOT platform : {'Patient Name': 'yasodha', 'Medicine Name': 'Azithral', 'Time': 12.0}
Data published to IBM IOT platform : {'Patient Name': 'yasodha', 'Medicine Name': 'Asthalin', 'Time': 12.0}
Data published to IBM IOT platform : {'Patient Name': 'yasodha', 'Medicine Name': 'Asthalin', 'Time': 15.0}
Data published to IBM IOT platform : {'Patient Name': 'yasodha', 'Medicine Name': 'Asthalin', 'Time': 19.3}
Data published to IBM IOT platform : {'Patient Name': 'yasodha', 'Medicine Name': 'Paracetamol', 'Time': 19.3}
Data published to IBM IOT platform : {'Patient Name': 'yasodha', 'Medicine Name': 'Azithral', 'Time': 15.0}
Data published to IBM IOT platform : {'Patient Name': 'yasodha', 'Medicine Name': 'Paracetamol', 'Time': 13.0}
Data published to IBM IOT platform : {'Patient Name': 'yasodha', 'Medicine Name': 'Azithral', 'Time': 19.3}
Data published to IBM IOT platform : {'Patient Name': 'yasodha', 'Medicine Name': 'Aspirine', 'Time': 15.0}
```

## PYTHON SCRIPT IN IBM WATSON IOT PLATFORM :

The screenshot displays the IBM Watson IoT Platform interface in a web browser. The top navigation bar includes tabs for 'Node-RED : node-red-gmtyt-20...', 'IBM', and 'IBM Watson IoT Platform'. The browser address bar shows the URL '09nst.internetofthings.ibmcloud.com/dashboard/devices/browse'. The main header of the platform shows the user 'sathyathulasi36@gmail.com' with ID '09nst'.

The left sidebar contains navigation icons for 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Browse' tab is active, showing a search bar 'Search by Device ID' and a 'Device Simulator' toggle. A table lists devices, with one device selected: Device ID '557353', Status 'Connected', Device Type 'NodeMCU', Class ID 'Device', and Date Added 'Nov 24, 2022 3:10 PM'.

Below the device list, the 'Recent Events' tab is selected, showing a live stream of data. The events are listed in a table with columns: Event, Value, Format, and Last Received.

Event	Value	Format	Last Received
IoTSensor	{"Patient Name": "yasodha", "Medicine Name": "As..."}	json	a few seconds ago
IoTSensor	{"Patient Name": "yasodha", "Medicine Name": "Pa..."}	json	a few seconds ago
IoTSensor	{"Patient Name": "yasodha", "Medicine Name": "As..."}	json	a few seconds ago
IoTSensor	{"Patient Name": "yasodha", "Medicine Name": "As..."}	json	a few seconds ago
IoTSensor	{"Patient Name": "yasodha", "Medicine Name": "Az..."}	json	a few seconds ago

A status message at the bottom right indicates '1 Simulation running'. The Windows taskbar at the bottom shows the system clock as 18:34 on 24-11-2022.