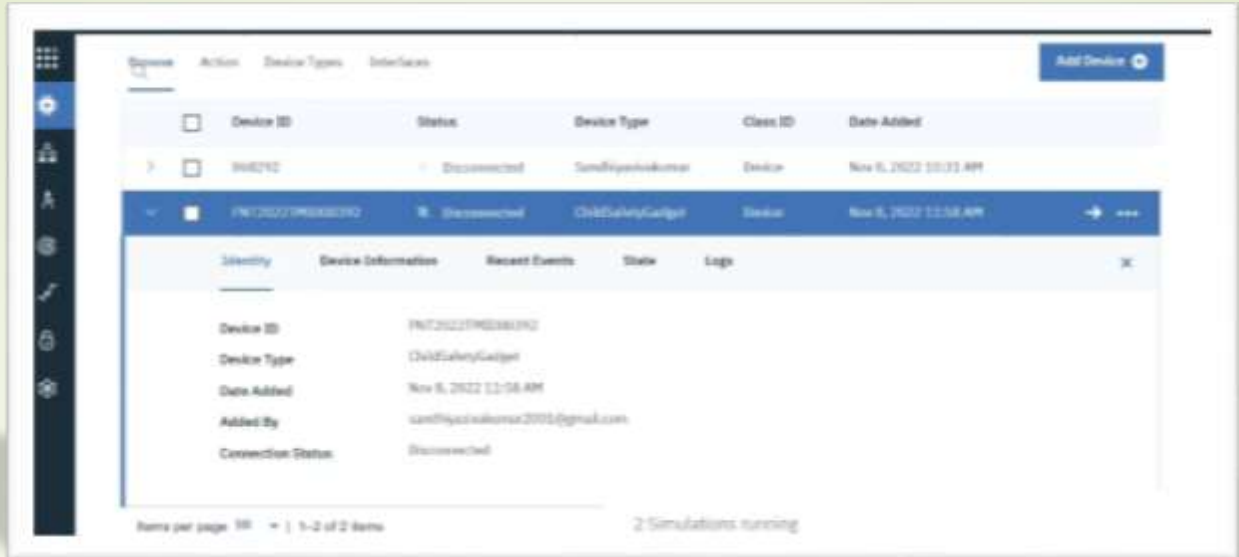


# SPRINT 4

## Interfacing:



## Python code:

```
import json
import wiotp.sdk.device
import time

myConfig={
    "identity":{
        "orgId": "90t0p8",
        "typeId": "ChildSafetyGadget",
        "deviceId": "PNT2022TMID00392"
    },
    "auth": {
        "token": "2zdfvRDye5(b1qFQpb"
    }
}
```

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

```
while True:
```

```
    name= "Smartbridge"
```

```
    latitude = 17.4219272
```

```
    longitude =78.5400783
```

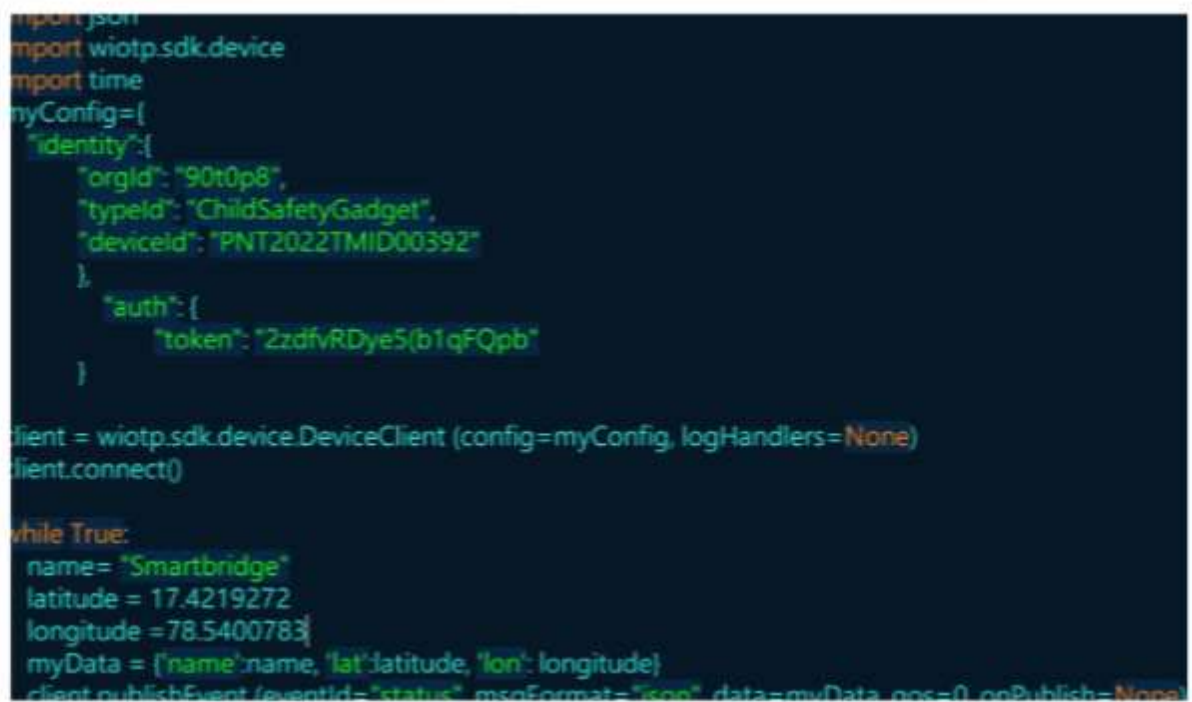
```
    myData = {'name':name, 'lat':latitude, 'lon': longitude}
```

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

```
    print ("Data published to IBM IoT platfrom: ",myData)
```

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

```
client.disconnect()
```



```
import json
import wiotp.sdk.device
import time
myConfig={
    "identity":{
        "orgId": "90t0p8",
        "typeId": "ChildSafetyGadget",
        "deviceId": "PNT2022TMID00392"
    },
    "auth": {
        "token": "2zdfvRDye5(b1qFQpb"
    }
}

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

while True:
    name= "Smartbridge"
    latitude = 17.4219272
    longitude =78.5400783
    myData = {'name':name, 'lat':latitude, 'lon': longitude}
    client.publishEvent (eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
```

```
print ("Data published to IBM IoT platform: ",myData)
time.sleep(5)

client.disconnect()
```

### Python Shell:

```
python 3.7.4 (tags/v3.7.4:0935112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit (AMD64)] on win32
type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\sandh\Downloads\ibm\python code\trailcode.py =====
2022-11-08 18:41:08.142 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d90t0p8:ChildSafetyGadget:P
NT2022TMD00392
Data published to IBM IoT platform: {'name': 'Smartbridge', 'lat': 17.4219272, 'lon': 78.5400783}
Data published to IBM IoT platform: {'name': 'Smartbridge', 'lat': 17.4219272, 'lon': 78.5400783}
Data published to IBM IoT platform: {'name': 'Smartbridge', 'lat': 17.4219272, 'lon': 78.5400783}
```

### IBM Watson Code:

The screenshot displays the IBM Watson IoT Platform interface. On the left, a sidebar contains navigation icons. The main area is divided into two panels. The left panel shows a table of devices with columns for 'Device ID', 'Status', and 'Device Type'. The right panel shows the details for a specific device, including 'Events' and 'Published' data.

Device ID	Status	Device Type
PNT2022TMD00392	Disconnected	ChildSafetyGadget

Device Details for PNT2022TMD00392:

- Device ID: PNT2022TMD00392
- Device Type: ChildSafetyGadget
- Date Added: Nov 8, 2022 10:58 AM
- Added By: sandh@psdindia.com (2022)@gmail.com
- Connection Status: Disconnected

Events and Published data are also visible on the right side of the interface.

## IBM Watson Output:

This screenshot shows the 'Device Information' tab for a specific device in the IBM Watson IoT Platform. The device is identified by ID PNT20221M0000392 and is of type ChildSafetyGadget. It was added on Nov 8, 2022 at 11:58 AM by user sandhyaivakumar2003@gmail.com. The connection status is 'Connected', with a connection time of Nov 8, 2022 at 4:43 PM and a client address of 49.37.217.86. The interface includes tabs for Identity, Device Information, Recent Events, State, and Logs.

Device ID	PNT20221M0000392
Device Type	ChildSafetyGadget
Date Added	Nov 8, 2022 11:58 AM
Added By	sandhyaivakumar2003@gmail.com
Connection Status	Connected Connection Time: Nov 8, 2022 4:43 PM Client Address: 49.37.217.86-SecureToken

This screenshot displays the 'Recent Events' tab for the same device. It shows a list of events, all of which are 'status' events. Each event contains a JSON payload with fields for 'name' and 'value'. The events are timestamped as 'a few seconds ago'. The interface also includes a sidebar with navigation options and an 'Add Device' button.

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":"SmartBridge","val":"17.4219272","ser":"0..."}	json	a few seconds ago
status	{"name":"SmartBridge","val":"17.4219272","ser":"0..."}	json	a few seconds ago
status	{"name":"SmartBridge","val":"17.4219272","ser":"0..."}	json	a few seconds ago
status	{"name":"SmartBridge","val":"17.4219272","ser":"0..."}	json	a few seconds ago
status	{"name":"SmartBridge","val":"17.4219272","ser":"0..."}	json	a few seconds ago