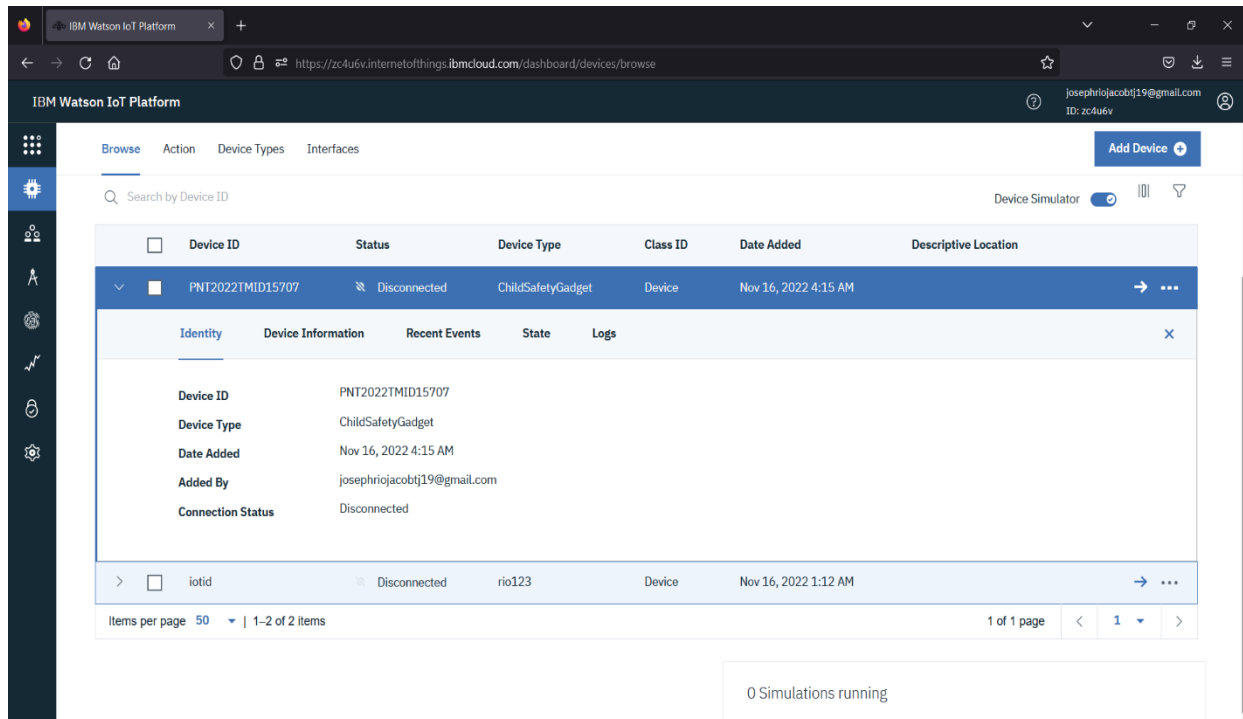


SPRINT 4

Interfacing:



Python code:

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

myConfig = {
    "identity": {
        "orgId": "zc4u6v",
        "typeId": "ChildSafetyGadget",
        "deviceId": "PNT2022TMID15707"
    },
    "auth": {
```

```

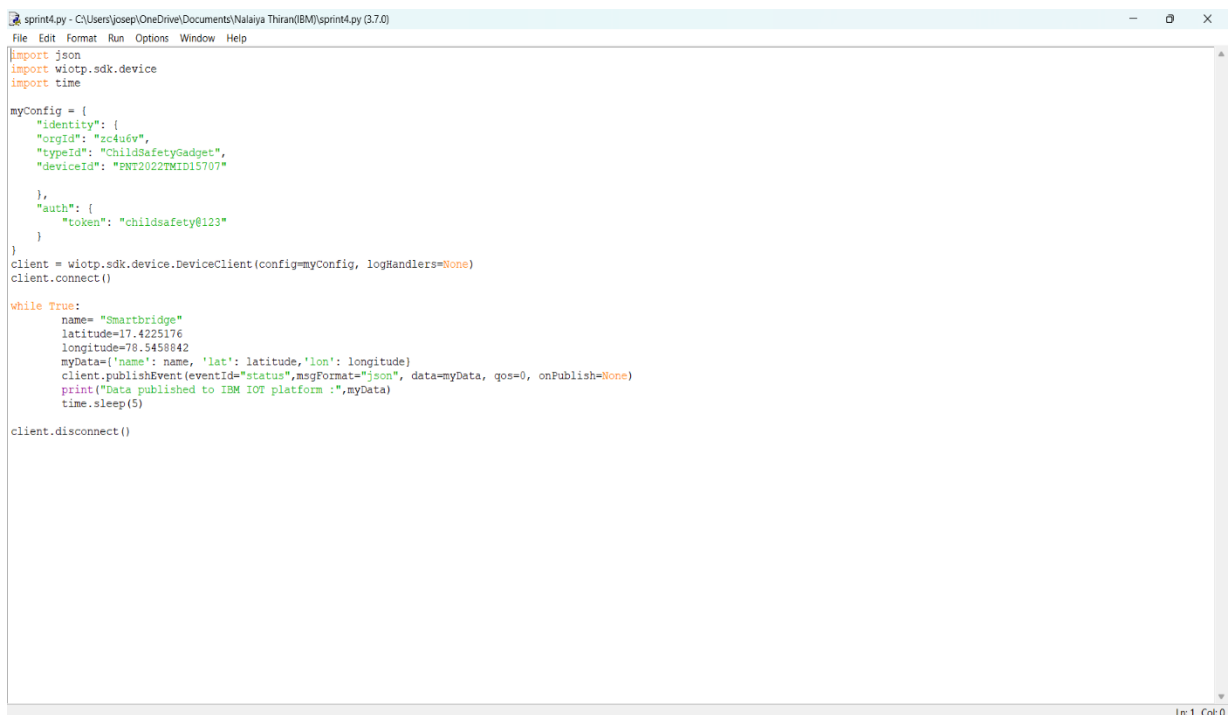
        "token": "childsafety@123"
    }
}

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

while True:
    name= "Smartbridge"
    latitude=17.4225176
    longitude=78.5458842
    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()

```



The screenshot shows a Python script named 'sprint4.py' in a text editor. The script defines a configuration object 'myConfig' with identity and authentication details. It then creates a 'DeviceClient' and connects to the IBM IoT platform. A 'while True' loop publishes data to the 'status' event every 5 seconds. The data includes a name, latitude, and longitude. The script ends with a 'client.disconnect()' call.

```

sprint4.py - C:\Users\josep\OneDrive\Documents\Nalaiya Thirani\IBM\sprint4.py (3.7.0)
File Edit Format Run Options Window Help

import json
import wiotp.sdk.device
import time

myConfig = {
    "identity": {
        "orgId": "ac4u6v",
        "typeId": "ChildSafetyGadget",
        "deviceId": "PNT2022TMIN15707"
    },
    "auth": {
        "token": "childsafety@123"
    }
}

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

while True:
    name= "Smartbridge"
    latitude=17.4225176
    longitude=78.5458842
    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:

[illegible]

IBM Watson Code:

IBM Watson IoT Platform

https://zcf46v.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform

Josephriojacob@19@gmail.com
ID: zcf46v

Browse

Action

Device Types

Interfaces

Browse Devices

All DevicesDiagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Q Search by Device ID

	Device ID	Status	Device Type	Class ID
>	<input type="checkbox"/> PNT2022TMDID15707	Disconnected	ChildSafetyGadget	Device
>	<input type="checkbox"/> iotid	Disconnected	rio123	Device

Items per page 50 | 1-2 of 2 items

Device Type: ChildSafetyGadget

Events 1

New event type

Event type name event_1

Send

Schedule

20 Every Minute

Payload

Specify the event payload in the editor window or by uploading a CSV file.

```
0 {  
1   "name": "SmartEdge",  
2   "lat": 17.4225178  
3   "lon": 78.5458842  
4 }  
5
```

Upload a CSV file

CancelSave

IBM Watson Output:

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar is present with the text 'Search by Device ID'. The main content area displays a table of devices. The first device, 'PNT2022TMID15707', is highlighted. Below the table, a detailed view of this device is shown, including its identity, device information, recent events, state, and logs. The device is connected and its status is 'Connected'. The connection status section shows the connection time and address.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
PNT2022TMID15707	Connected	ChildSafetyGadget	Device	Nov 16, 2022 4:15 AM	

Device ID	Device Information	Recent Events	State	Logs
PNT2022TMID15707	ChildSafetyGadget			

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
iotid	Disconnected	rio123	Device		

1 Simulation running

The screenshot shows the IBM Watson IoT Platform interface, focusing on the 'Recent Events' tab for the device 'PNT2022TMID15707'. The interface displays a table of recent events, including the event name, value, format, and last received time. The events are listed in a table with columns for Event, Value, Format, and Last Received. The events are sorted by time, with the most recent at the top. The events are labeled 'status' and 'event_1'.

Event	Value	Format	Last Received
status	{"name":"Smartbridge","lat":17.4225176,"lon":7...	json	a few seconds ago
event_1	{"name":"Smartbridge","lat":17.4225176,"lon":78...	json	a few seconds ago
event_1	{"name":"Smartbridge","lat":17.4225176,"lon":78...	json	a few seconds ago
status	{"name":"Smartbridge","lat":17.4225176,"lon":7...	json	a few seconds ago
event_1	{"name":"Smartbridge","lat":17.4225176,"lon":78...	json	a few seconds ago

1 Simulation running

The screenshot displays the IBM Watson IoT Platform web application. The top navigation bar includes tabs for "Browse", "Action", "Device Types", and "Interfaces". The main content area shows the details for a specific device, identified by ID "PNT2022TMDI15707". The device status is "Connected", and its type is "ChildSafetyGadget". Below this, there are sections for "Identity", "Device Information", "Recent Events", "State", and "Logs". The "Recent Events" section contains a message: "The recent events listed show the live stream of data that is coming and going from this device." At the bottom, a table lists several events, each with columns for Event, Value, Format, and Last Received. The events include "status" and "event_1", all recorded as JSON strings. On the right side of the screen, a terminal window titled "Python 3.7.0 Shell" is open, displaying the output of a Python script. The script appears to be interacting with the IoT platform via REST API calls, sending data and receiving responses. The terminal output shows successful connections and data exchanges between the client and the server.