

TESTING THE WEB UI USING NODE RED

Date	13 NOVEMBER 2022
Team ID	PNT2022TMID42281
Project Name	Project – SMART SOLUTIONS FOR RAILWAYS

PROCEDURE:

Step1: Deploy the node red flow

Step2: Copy the node red web link

Step3: Enter ui at the end of copied link and browse the link

Step4: Fill the details

WEB APPLICATION LINK: <https://node-red-oybfp-2022-11-04.eu-gb.mybluemix.net/ui/>

PYTHON CODE FOR TRACKING TRAIN:

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "dks66l",
        "typeId": "Sudha",
        "deviceId": "45"
    },
    "auth": {
        "token": "sudha2002@"
    }
}

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)

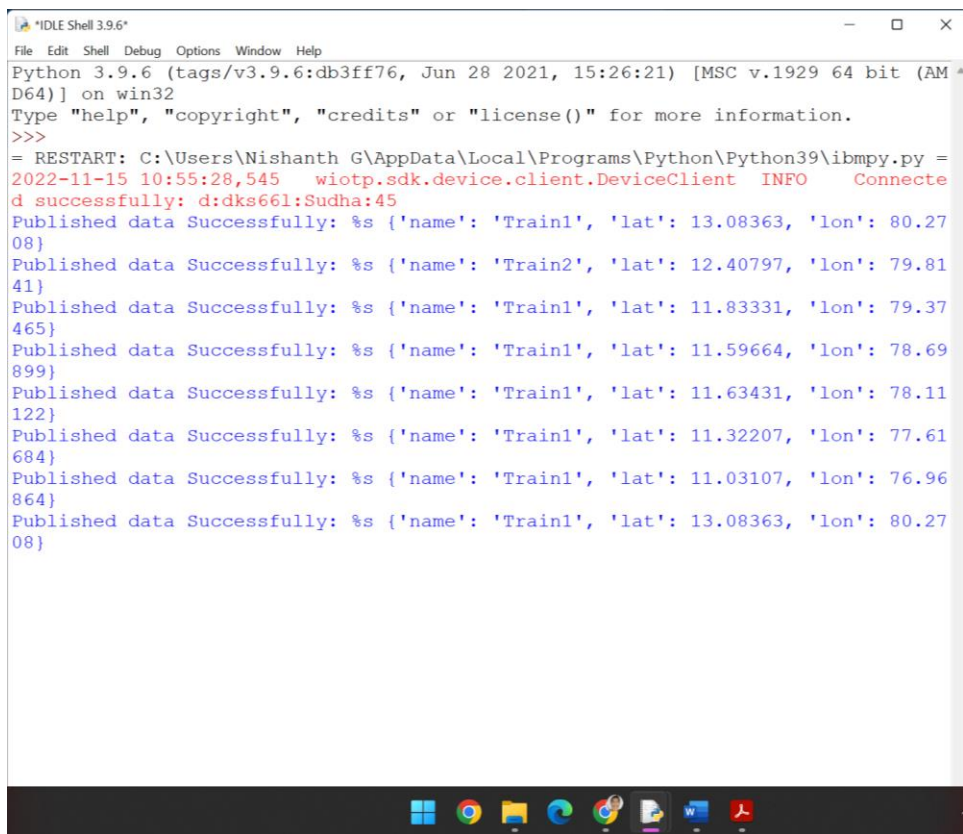
while True:
    myData={'name': 'Train1', 'lat':13.08363 , 'lon': 80.27080}
    pub (myData)
    time.sleep (2)
    myData={'name': 'Train2', 'lat': 12.40797, 'lon': 79.81410}
    pub (myData)
    time.sleep (2)
    myData={'name': 'Train1', 'lat': 11.83331, 'lon': 79.37465}
    pub(myData)
    time.sleep(6)
```

```

myData={'name': 'Train1', 'lat': 11.59664, 'lon': 78.69899}
pub(myData)
time.sleep(6)
myData={'name': 'Train1', 'lat': 11.63431, 'lon': 78.11122}
pub(myData)
time.sleep(6)
myData={'name': 'Train1', 'lat': 11.32207, 'lon': 77.61684}
pub(myData)
time.sleep(6)
myData={'name': 'Train1', 'lat': 11.03107, 'lon': 76.96864}
pub(myData)
time.sleep(6)
client.commandCallback = myCommandCallback
client.disconnect()

```

PYTHON CODE OUTPUT:

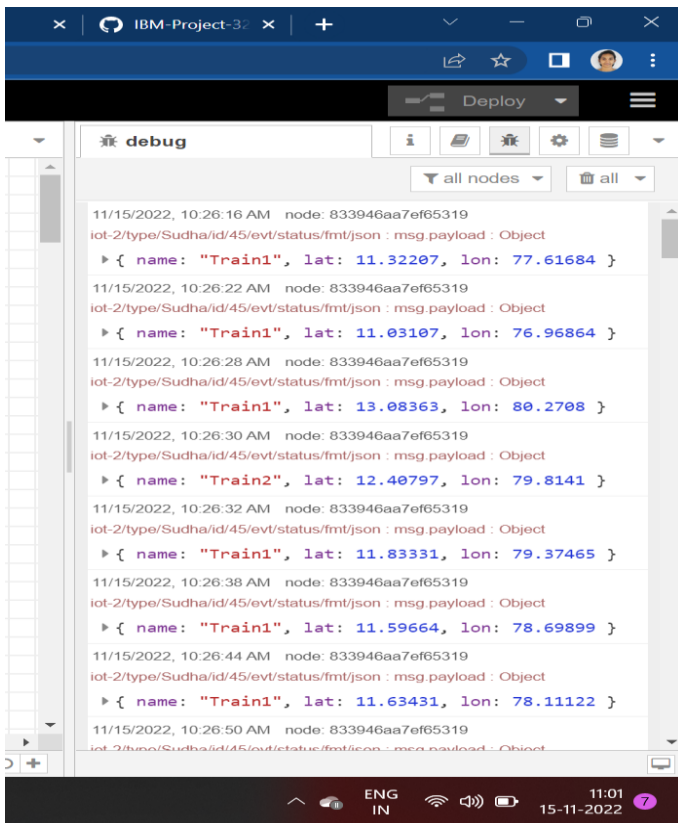


```

Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\Nishanth G\AppData\Local\Programs\Python\Python39\ibmpy.py =
2022-11-15 10:55:28,545 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:dk661:Sudha:45
Published data Successfully: %s {'name': 'Train1', 'lat': 13.08363, 'lon': 80.2708}
Published data Successfully: %s {'name': 'Train2', 'lat': 12.40797, 'lon': 79.8141}
Published data Successfully: %s {'name': 'Train1', 'lat': 11.83331, 'lon': 79.37465}
Published data Successfully: %s {'name': 'Train1', 'lat': 11.59664, 'lon': 78.69899}
Published data Successfully: %s {'name': 'Train1', 'lat': 11.63431, 'lon': 78.11122}
Published data Successfully: %s {'name': 'Train1', 'lat': 11.32207, 'lon': 77.61684}
Published data Successfully: %s {'name': 'Train1', 'lat': 11.03107, 'lon': 76.96864}
Published data Successfully: %s {'name': 'Train1', 'lat': 13.08363, 'lon': 80.2708}

```

NODE RED OUTPUT:



TRACKING MAP:

