

PROJECT DEVELOPMENT PHASE

SPRINT 2

Date	10 November 2022
Team ID	PNT2022TMID12354
Project Name	Smart Solutions For Railways
Maximum Marks	8 Marks

PYTHON CODE FOR GPS:

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": " s91n0t",
        "typeId": " MyDeviceType",
        "deviceId": " 12345"
    },
    "auth": {
        "token": " @)fRE3fdiTS!MaT3F_"
    }
}

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 ()
```