PYTHON SCRIPT

Team ID	PNT2022TMID44878
Project Name	SMART SOLUTIONS FOR RAILWAYS

python code for publishing the location (latitude and longitude).

```
import wiotp.sdk.device
import time
# Provide your IBM Watson Device Credentials
myConfig = {     "identity": {                    "orgId": "ie9ki3",
                                "typeId": "mydevice",
                                "deviceId":"mydeviceid"},
            "auth": {                    "token": "bW(_2O((aRG8E6fij6"}}

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:

    ######____TRAIN ROUTE FROM_____MUMBAI ----> CHENNAI____######

    myData = {'name': 'MUMBAI--->CHENNAI EXPRESS', 'lat': 13.913128, 'lon': 79.360651}
    pub(myData)
    time.sleep(3)
    myData = {'name': 'MUMBAI--->CHENNAI EXPRESS', 'lat': 13.729034,'lon': 79.472997}
    pub(myData)
    time.sleep(3)
    myData = {'name': 'MUMBAI--->CHENNAI EXPRESS', 'lat': 13.478878, 'lon': 79.541901}
    pub (myData)
    time.sleep (3)
    myData = {'name': 'MUMBAI--->CHENNAI EXPRESS', 'lat': 13.216907,'lon': 79.592364}
    pub(myData)
    time.sleep(3)
```

```
    myData = {'name': 'MUMBAI--->CHENNAI EXPRESS', 'lat': 13.093835,'lon': 79.683645}
    pub(myData)
    time.sleep(3)
    myData = {'name': 'MUMBAI--->CHENNAI EXPRESS', 'lat': 13.128028,'lon': 79.932913}
    pub(myData)
    time.sleep(3)
    client.commandCallback = myCommandCallback
client.disconnect()
```