DATE	29/10/2022
TEAM ID	PNT2022TMID11580
PROJECT NAME	Smart Solutions for Railways Using IOT

LOCATION TRACKING

CODE:

```
import wiotp.sdk.device
import time
import random
myConfig={
    "identity": {
        "orgId": "kbzwt4",
        "typeId": "NodeMCU",
        "deviceId": "12345"
    },
    "auth": {
        "token": "12345678"
    }
}
def myCommandCallback(cmd):
    print("msg 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)
```

```python
        print("Published data successfully:%s",myData)
while True:
    myData={'name':'train1','lat':17.6387448,'lon':78.4754336}
    pub(myData)
    time.sleep(3)
    myData={'name':'train1','lat':17.6341908,'lon':78.4744722}
    pub(myData)
    time.sleep(3)
    myData={'name':'train1','lat':17.6340889,'lon':78.4745052}
    pub(myData)
    time.sleep(3)
    myData={'name':'train1','lat':17.6248626,'lon':78.4720259}
    pub(myData)
    time.sleep(3)
    myData={'name':'train1','lat':17.6188577,'lon':78.4698726}
    pub(myData)
    time.sleep(3)
    myData={'name':'train1','lat':17.6132382,'lon':78.4707318}
    pub(myData)
    time.sleep(3)
    client.commandCallback=myCommandCallback
client.disconnect()
```

OUTPUT:

2022-11-19 14:32:59,141   wiotp.sdk.device.client.DeviceClient INFO   Connected successfully: d:kbzwt4:NodeMCU:12345

Published data successfully:%s {'name': 'train1', 'lat': 17.6387448, 'lon': 78.4754336}
Published data successfully:%s {'name': 'train1', 'lat': 17.6341908, 'lon': 78.4744722}
Published data successfully:%s {'name': 'train1', 'lat': 17.6340889, 'lon': 78.4745052}
Published data successfully:%s {'name': 'train1', 'lat': 17.6248626, 'lon': 78.4720259}
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