DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSCRIBE TO IBM IOT PLATFORM

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

```
import wiotp.sdk.device
import time
import random
myConfig={
  "identity": {
    "orgId": "gagtey",
    "typeId": "GPS",
    "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)
  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()
```

```
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∨ =
     In [ ]: import wiotp.sdk.device
               import time
               myConfig={
                    "identity": {
    "orgId": "kbzwt4",
    "typeId": "NodeMCU",
    "deviceId": "12345"
                     auth": {
"token": "12345678"
                   }
               def mvCommandCallback(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)
                   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)
                   pad(mybdta)
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': 17.6188577, 'lon': 78.4698726}
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Published data successfully:%s {'name': 'train1', 'lat': 17.6188577, 'lon': 78.4698726}
```