Develop A Python Script To Publish And Subscribe To IBM IoT Platform

Team ID	PNT2022TMID43384
Project Name	Smart Farmer- IoT Enabled Smart Farming Application

```
smart_agri.py - C:\Users\vijiganesan\AppData\Local\Programs\Python\Python37\smart_agri....     —    □    ×

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import wiotp.sdk.device
import wiotp.sdk.application
import time
import os
import datetime
import random
myconfig={
    "identity":{
        "orgId":"o16sqk",
        "typeId":"NodeMCU",
        "deviceId":"12345"
        },    "auth":{
        "token":"715519106004"
        }
}
client=wiotp.sdk.device.DeviceClient(config=myconfig,logHandlers=None)
client.connect()

def myCommandCallback(cmd):
    print("Message received from IBM Iot platform: %s"%cmd.data['command'])
    m=cmd.data['command']
    if(m=="motoron"):
        print("Motor is switched on")
    elif(m=="motoroff"):
        print("Motor is switched OFF")
    print(" ")
while(True):
    soil=random.randint(0,100)
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    myData={'soil_moisture':soil,'temperature':temp,'humidity':hum}
    client.publishEvent("IoTsENSOR","json",myData,qos=0,onPublish=None)
    print("Published data Successfully:%s",myData)
    time.sleep(2)
    client.commandCallback=myCommandCallback
client.disconnect()
```

IBM Watson IoT Platform

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Device Drilldown - 12345

Client Address: 157.49.232.175 SecureToken

Connection Information

Recent Events
State
Device Information
Metadata
Diagnostics
Connection Logs
Device Actions

Recent Events

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
IoTSENSOR	{"soil_moisture":58,"temperature":114,"humidit...	json	a few seconds ago
IoTSENSOR	{"soil_moisture":53,"temperature":-20,"humidity...	json	a few seconds ago
IoTSENSOR	{"soil_moisture":60,"temperature":80,"humidity"...	json	a few seconds ago
IoTSENSOR	{"soil_moisture":31,"temperature":125,"humidit...	json	a few seconds ago
IoTSENSOR	{"soil_moisture":43,"temperature":5,"humidity"...	json	a few seconds ago