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

ProjectName	Smart Farmer-IoTEnabledSmartFarming Application
Team ID	PNT2022TMID44065

PYTHON CODE:-

```
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig = {
  "identity": {
    "orgId": "lzb3pr",
    "typeId": "DEENA",
    "deviceId": "12345"
    "auth": {
       "token": "123456789"
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(eventId="status",msgFormat="json",data=myData,qos=0,onPublish=None)
  print("Published data sucessfully: %s",myData)
  time.sleep(2)
  client.commandCallback=myCommandCallback
client.disconnect()
```

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def myCommandCallback(cmd):
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    m=cmd.data["command"]
    if (m=="motoron"):
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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(eventId="status",msgFormat="json",data=myData,qos=0,onPublish=None)
    print("Published data sucessfully: %s",myData)
    time.sleep(2)
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client.disconnect()
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