Development of python code

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Topic	Development of python code

Goal:

To develop the python code to publish and subscribe to the commands from the IBM cloud.

Python code:

import wiotp.sdk.device

import time

import OS

import datetime

import random

myConfig = {

"identity": {

"orgId": " 023f97"

"typeId": "NodeMCU"

"deviceId": "12345"

},

"auth":{

"token": " CT8N7Sz?giHVFxk-V?"

}

}

client = wiotp.sdk.device.DeviceClient {config =myConfig, logHandlers=None}

```python
client.connect ()

def myCommandCallhack (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,
        gos=0, onPublish=None)

        print ("Published data Successfully: %s", myData)

        time.sleep (2)

        client.commandCallback = myCommandCallback

client.disconnect ()
```