EVELOPMENT 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}
```

```
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 ()
```