

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

TEAM ID	PNT2022TMID018038
PROJECT NAME	Smart Farmer - IoT Enabled Smart Farming Application
Date	06 November 2022

```
import wiotp.sdk.device
import time
import os
import random
myconfig = {
    "identity": {
        "orgId":"3lnltf",
        "typeId":"NodeMCU",
        "deviceId":"12345"
    },
    "auth":{
        "token":"12345678"
    }
}
client = wiotp.sdk.device.DeviceClient(config=myconfig,
logHandlers=None)
client.connect()

def myCommandCallback(cmd):
    print("Messure recived from IBM ToT Platform: %s" %
cmd.data['command'])
    m=cmd.data['command']
    if(m=="Motor is switched on"):
        print("Motoris switched on")
```

```
elif(m=="motoroff"):
    print("Motor is switched OFF")
    print("")
while True:
    soil=random.randint(22, 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 Successfully: %s",myData)
    time.sleep(2)
    client.commandCallback= myCommandCallback
client.disconnect()
```