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| Project Title | Smart Farmer – IoT Enabled Smart Farming Application |

Develop a python script to publish and subscribe to IBM IoT platform

```
import wiotp.sdk.device
import time
import os
import datetime
import random

myConfig = { "identity": {
    "orgId": "m5ttid",
    "typeId": "Device1",
    "deviceId": "12345"
},
    "auth": {
    "token": "12345678"
} }

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':te
mp,
'humidity':hum
}
client.publishE
vent
(eventId="statu
```

```
s",  
msgFor  
mat="js  
on",  
data=myData, qos=0 , onPublish=None)  
print ("Published data Successfully: %s",  
myData) time.sleep (2)  
client.commandCallback =  
myCommandCallbackclient.disconnect ()
```