

Develop A Python Script to Publish and Subscribe To IBM IoT Platform

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Project Name	Smartfarming -IOT Based Smart Farming Application

Program:

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

myConfig = {
    "identity": {
        "orgId": "hjSfmy",
        "typeId": "DeviceId",
        "deviceId": "67890"
    },
    "auth": {
        "token": "87654321"
    }
}
```

```

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 Successfully: %s", myData)
            time.sleep (2) client.commandCallback =
            myCommandCallback client.disconnect ()

```