

FINAL CODE

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PROJECT NAME	Smartfarmer - IOT enabled smart Farming Application

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

PYTHON CODE

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

```
myConfig = {
    "identity":{
        "orgId":"0e7wko",
        "typeId":"123",
        "deviceId":"1234"
    },
    "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':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()

```