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

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Project Name	SMARTFARMER – IoT ENABLED SMARTFARMING APPLICATION

PROGRAM :

```
import wiotp.sdk.device
import time import os
import datetime import
random myConfig =
{ "identity": {
"orgId": "hjSfmy",
"typeId": "Devicelk",
"deviceId": "567890"
},
"auth": {
"token": "876543210"
}
}
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.ra
ndint    (0,100)
temp=random.
randint    (-20,
125)
hum=random.r
andint (0, 100)
myData={'soil
```

```python
            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()
```