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

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Project Name	SMART FARMER – IOT ENABLED SMART FARMING APPLICATION

PROGRAM :

```
import wiotp.sdk.device
import time import os
import datetime import
random
myConfig = {
"identity": {
"orgId": "hjSfmy",
"typeId": "Devicelk",
"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:
```

```python
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 ()
```