

DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSRIBETO IBM IOT PLATFORM

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Team ID	PNT2022TMID44735
Project Name	SMARTFARMER – IoT ENABLED SMARTFARMING APPLICATION

```
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['comman
d']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
```

```
= myCommandCallbackclient.disconnect ()
```