

DEVELOP A PYTHON SCRIPT TO PUBLISH ANDSUBSRIBE TO IBM IOT PLATFORM

Date	10 November 2022
Team ID	PNT2022TMID02650
Project Name	SMARTFARMER – IoT ENABLED SMARTFARMING APPLICATION

PROGRAM :

```
import wiotp.sdk.device
```

```
import time
```

```
import os
```

```
import datetime
```

```
import random
```

```
myConfig = {
```

```
"identity": {
```

```
},
```

```
"auth": {
```

```
}
```

```

}
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:
10 November 2022
PNT2022TMID0265
0
"orgId": "1yc3ld",
"typeId": "SSPR",
"deviceId":
"12345"
"token": "12345678"
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 ()
```