

DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSRIBE TOIBM IOT PLATFORM

Team ID	PNT2022TMID41836
Project Name	SMART FARMER – IoT ENABLED SMARTFARMINGAPPLICATION

Program:

```
import wiotp.sdk.device
import time importos
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 ()
```