

Team ID	PNT2022TMID03184
Project Name	Project – Smart farmer-IoT enabled smart farming application.

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

PROGRAM :

```

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['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.r
andint (-20,
125)
hum=random.r
andint (0, 100)
myData={'soil
moisture': soil,
'temperature':te

```

```
        mp,
        'humidity':hum
    }
    client.publishE
vent (eventId="stat
s", msgFormat="js
on",
data=myData, qos=0 , onPublish=None) print
("Published data Successfully: %s", myData)time.sleep
(2)
client.commandCallback = myCommandCallback
client.disconnect ()
```

