

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

Date	30 October 2022
Team ID	PNT2022TMID13469
Project Name	SmartFarmer – IOT enabled Smart Farming Application System

PROGRAM :

```
import wiotp.sdk.device
import time import os
import datetime import
random myConfig = {
"identity": {
"orgId": "hjSfmy",
"typeId": "DeviceId",
"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:
soil=random.ra
ndint (0,100)
temp=random.r
andint (-20,
125)
```

```
hum=random.randint (0, 100)
myData={'soil moisture': soil,
'temperature':temp,
'humidity':hum
}
client.publishEvent
vent
(eventId="status",
msgFormat="json",
data=myData, qos=0 , onPublish=None) print
("Published data Successfully: %s", myData)
time.sleep (2)
client.commandCallback = myCommandCallback
client.disconnect ()
```