

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

Team ID	PNT2022TMID14879
Project Name	SMARTFARMER – IoT ENABLED SMARTFARMING APPLICATION

### **PROGRAM :**

```
import wiotp.sdk.device
import time import os
import datetime import
random myConfig = {
"identity": {
"orgId": "hjSfmy",
"typeId": "DeviceIk",
"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.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 = myCommandCallback  
client.disconnect ()
```