

# **Smart Farmer-IOT Enabled Smart Farming Application**

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

<b>TITLE</b>	<b>Smart Farmer-IOT Enabled Smart Farming Application</b>
<b>DOMAIN NAME</b>	INTERNET OF THINGS
<b>TEAM ID</b>	PNT2022TMID21901

## 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="statu
s",
msgFormat="js
```

```
on",  
data=myData, qos=0 , onPublish=None) print ("Published  
data Successfully: %s", myData) time.sleep (2)  
client.commandCallback = myCommandCallback client.disconnect  
(
```