

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

## **DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSRIBE 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>	PNT2022TMID50617
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## PROGRAM :

```
import wiotp.sdk.device
import time import os
import datetime import
random myConfig = {
"identity": {
"orgId": " xhlz7n",
"typeId": " python",
"deviceId": "python"
},
"auth": {
"token": " 4dZrWHR3WAwZL(mQJN"
} }
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 ()
```