MEPCO SCHLENK ENGINEERING COLLEGE

Department of Electronics and Communication Engineering

IBM NALAIYA THIRAN

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

TEAM ID : PNT2022TMID18128

TITLE : **Smart Farmer- IoT Enabled Smart Farming Application**

DOMAIN NAME : Internet of Things

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SIVA HARITHA S

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MENTOR NAME : VARUN PRAKASH R

Program:

```
import wiotp.sdk.deviceimport
time
import os import datetime
import random myConfig
= { "identity": {
 "orgId": "m5ttid",
"typeId": "Devicel",
"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.publishEvent (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 ()