AAA COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Electronics and Communication Engineering

Smart Farmer-IOT Enabled Smart Farming Application

IBM NALAIYATHIRAN

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

TITLE	**Smart Farmer-IOT Enabled Smart Farming Application**
DOMAIN NAME	INTERNET OF THINGS
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PROGRAM :

```
import wiotp.sdk.device
import time import os
import date time 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=="motor off"):
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 ()
```