Smart Farmer-IOT Enabled Smart Farming Application

**IBM NALAIYATHIRAN**

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

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| DATE | 10 NOVEMBER 2022 |
| TEAM ID | PNT2022TMID47605 |
| PROJECT NAME | SMART FARMER-IOT ENABLED SMART FARMING |

**PROGRAM :**

import wiotp.sdk.device import 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.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 ()