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

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| Project Name | SMARTFARMER – IoT ENABLED  SMART FARMING APPLICATION |

**PROGRAM :**

import wiotp.sdk.device import time import os import datetime import random myConfig = {

"identity": {

"orgId": "8jst89",

"typeId": "Devicel", "deviceId": "14042"

},

"auth": {

"token": "30042002"

} }

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.randint (0,100) temp=random.randint (-20, 125) hum=random.randint (0, 100) myData={'soil moisture': soil, 'temperature':temp, 'humidity':hum} client.publishEvent (eventId="status", msgFormat="json",

data=myData, qos=0 , onPublish=None) print ("Published data Successfully: %s", myData) time.sleep (2)

client.commandCallback = myCommandCallback client.disconnect ()