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

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| Team ID | PNT2022TMID24187 |
| Project Name | SMARTFARMER – IoT ENABLED SMARTFARMING APPLICATION |

**PROGRAM :**

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

{ "identity": {

"orgId": "hjSfmy",

"typeId": "Devicelk",

"deviceId": "67890"

},

"auth": {

"token": "87654321"

} }

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 ()