**DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSRIBE**

**TO IBM IOT PLATFORM**

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| Team ID | PNT2022TMID01130 |
| Project Name | Project – Smart Farmer-IoT Enabled smart  Farming Application |

**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.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 ()