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

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| **Date** | **3rd November 2022** |
| **Team ID** | **PNT2022TMID28767** |
| **Project Name** | **IoT Enabled Smart Farming Application** |

**PROGRAM:**

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| 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 () |