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

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| Team Id | PNT2022TMID16026 |
| Project Name | Smart Farmer – IOT Enabled Smart Farming Application |

**PROGRAM:**

import wiotp.sdk.device

import time

import os

import datetime

import random

myConfig = {

"identity": {

"orgId": "14dcvs",

"typeId": "Devicel",

"deviceId": "H1J4"

},

"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 ()