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

Team ID	PNT2022TMID33042
Project Name	IOT-Smart farmer
Maximum Marks	4 Marks

DEVELOP PYTHON CODE:

import wiotp.sdk.device

import time

import os

import datetime

import random

myConfig ={

"identity":{

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"orgld": "ofymg2",
     "typeId": "Ultrasonic_sensor03",
     "deviceId": "012"
  "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")
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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()
```