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

Date	14 November 2022
Team ID	PNT2022TMID45187
Project Name	SMARTFARMER – IoT ENABLED SMART FARMING APPLICATION

PROGRAM:

```
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig = {
 "identity": {
    "orgId": "mlgc9d",
    "typeId": "NodeMCU",
    "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.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 ()
```

OUTPUT:

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