Smart Farmer - IOT Enabled Smart Farming Application

DEVELOP AN PYTHON SCRIPT TO PUBLISH AND SUBSCRIBE TO IBM IOT PLATFORM:-

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Program:-

```
import wiotp.sdk.device

import time

import os

import datetime

import random

myConfig = {"identity"}:

 {

"orgId": "droyd2",

 "typeId": "surekhasks",
```

```
 "deviceId": "9344706"
    },
    "auth": {
        "token": "HfLa_E+N*t4)nxBx+I"
    }
}
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=ramdom.randint(0,100)
  temp=ramdom.randint(-20,125)
  hum=ramdom.randint(0,100)
```

```
  myData={'soil moisture': soil, 'temperature':temp, 'humidity':hum}
  clint.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()
```