Smart Farmer-IOT Enabled Smart Farming Application

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

TITLE	**Smart Farmer-IOT Enabled Smart Farming Application**
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PROGRAM :

```
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig={
 "identity":{
 "orgId":"tdo49a",
 "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:
 h=random.randint(0,100)
 temp=random.randint(-20,125)
 p=random.randint(0,100)
 myData={'humidity':h, 'temperature':temp,
'ph':p}
 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()
```