DEVELOP A PYTHON SCRIPT

TO PUBLISH AND SUBSCRIBE TO IBM PLATFORM

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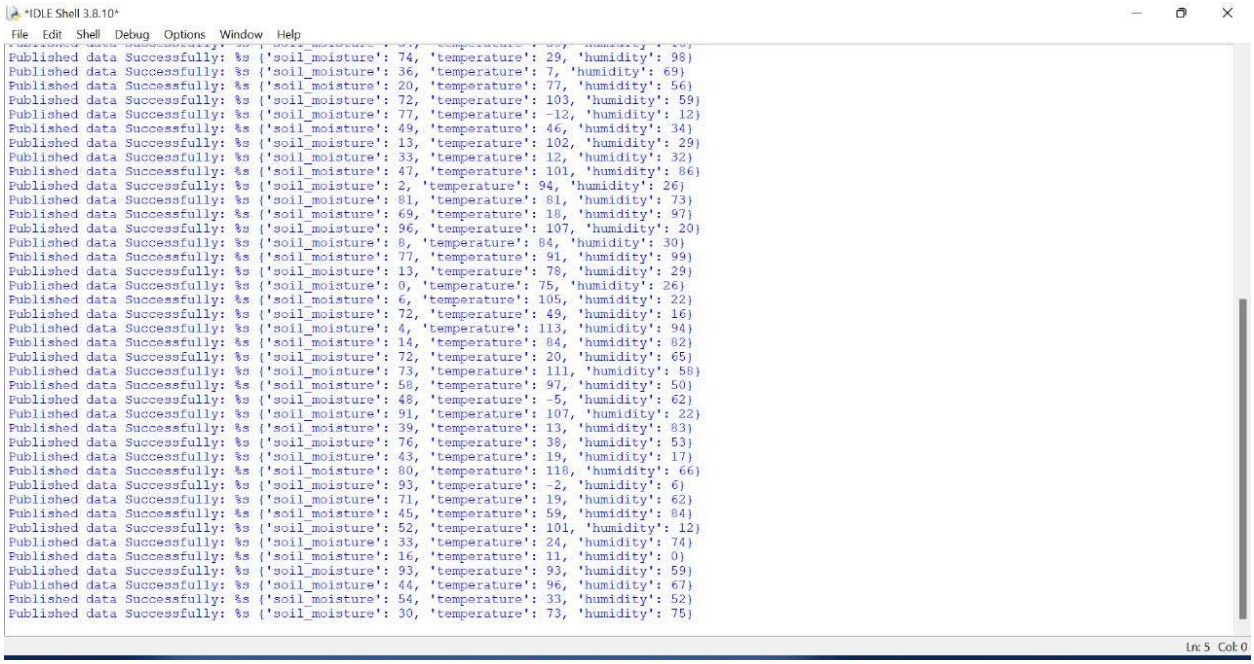
Project Name	Smart Farmer - IoT Enabled Smart Farming Application

Step 1: Python Program

```
import  wiotp.sdk.device
import  time
import  os
import  datetime
import  random
myconfig = {
    "identity": {
        "orgId": "ga4sjl",
        "typeId": "NodeMCU",
        "deviceId": "12345"
    },
    "auth": {
        "token": "CK2!+2FzgnyZFWE9yW"
        }
}
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={'soilmoisture':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)
```

OUTPUT:



Step3: Go To IBM WATSON IOT Platform, Under The Devices See the Status of Output