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

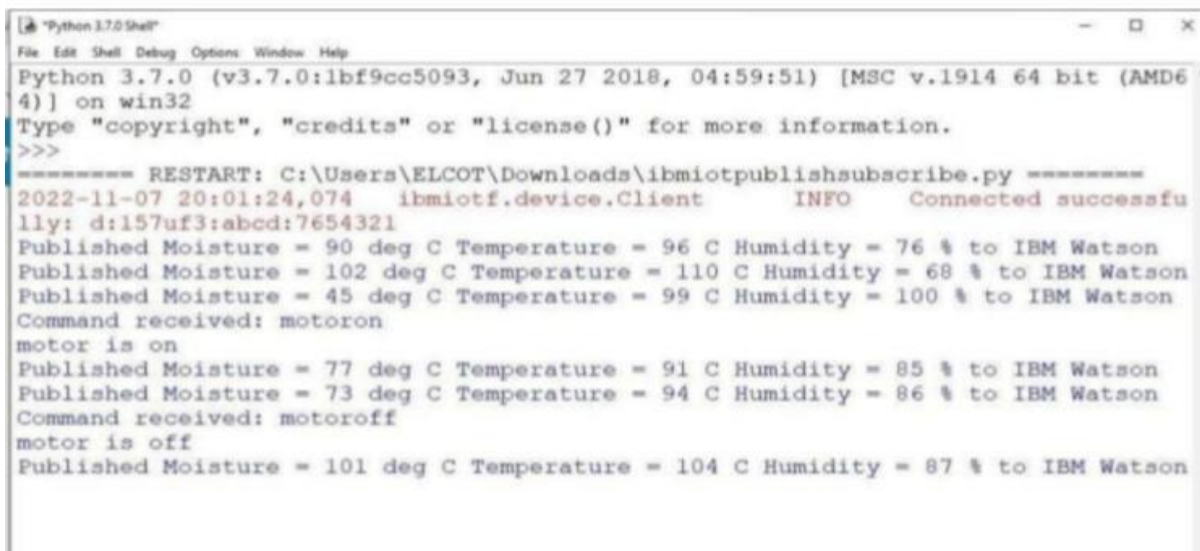| Date	18 November 2022
Team ID	PNT2022TMID41134
Project Name	SMARTFARMER – IoT ENABLED SMART FARMING APPLICATION

PROGRAM :

```
import wiotp.sdk.device  import time
import os import datetime import
random myConfig = {
"identity": {
"orgId": "3j2gcg",
"typeId": "ultrasonic",
"deviceId": "1407"
},
"auth": {
"token": "140373008"
} }
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.ra
ndint
     (0,100)
temp=random.r andint   (-
20,
125)
```

```python
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