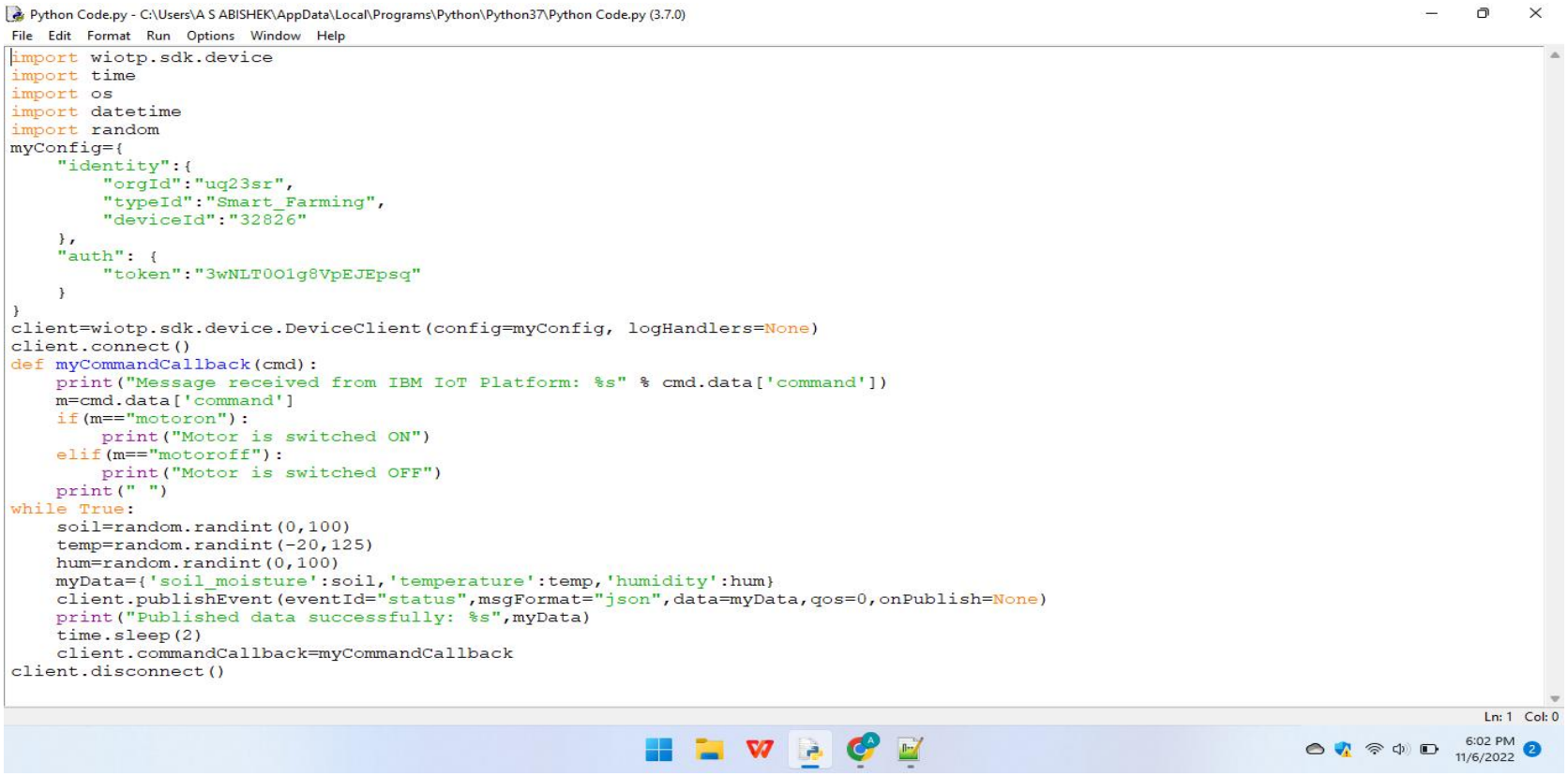
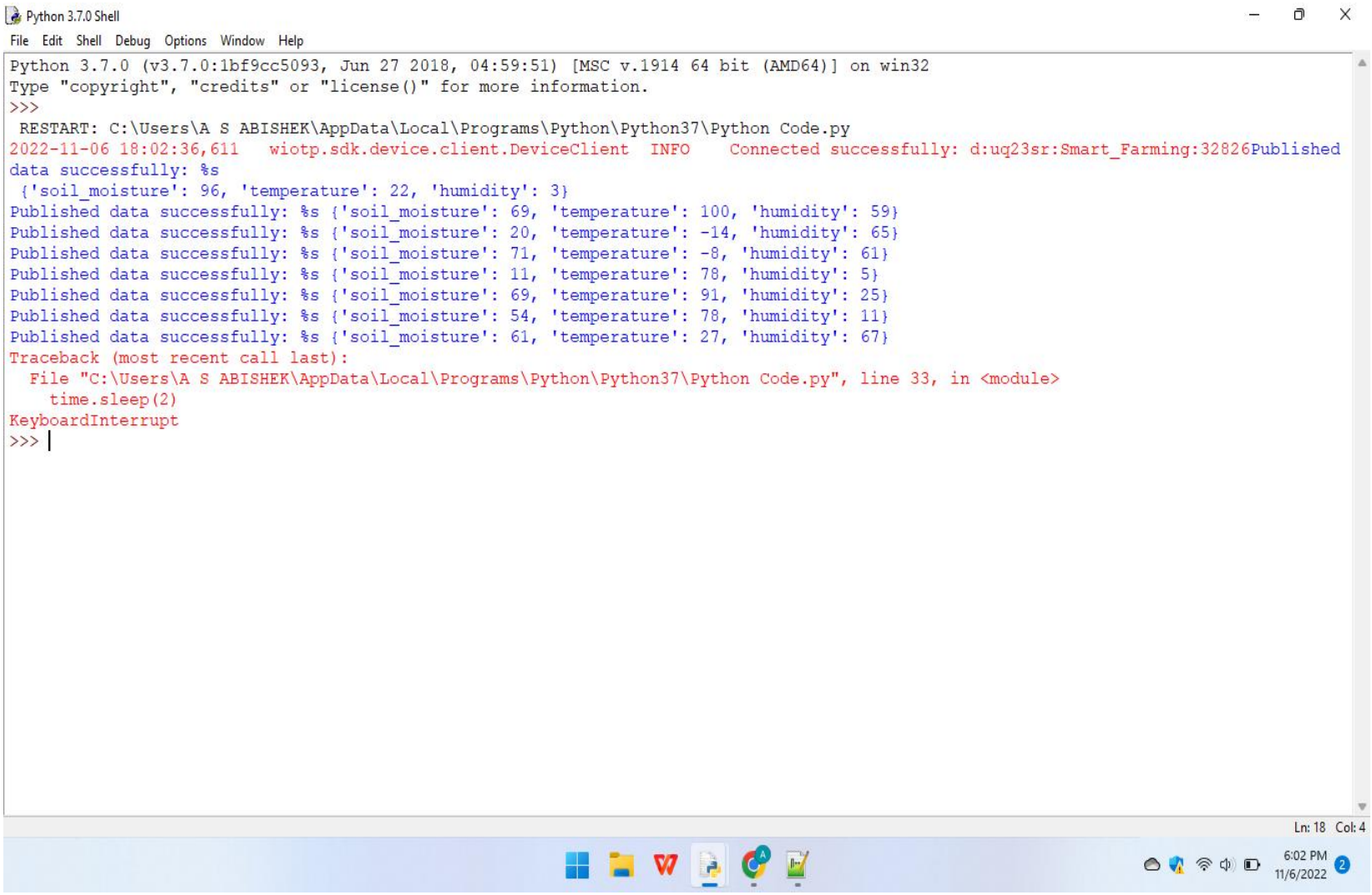
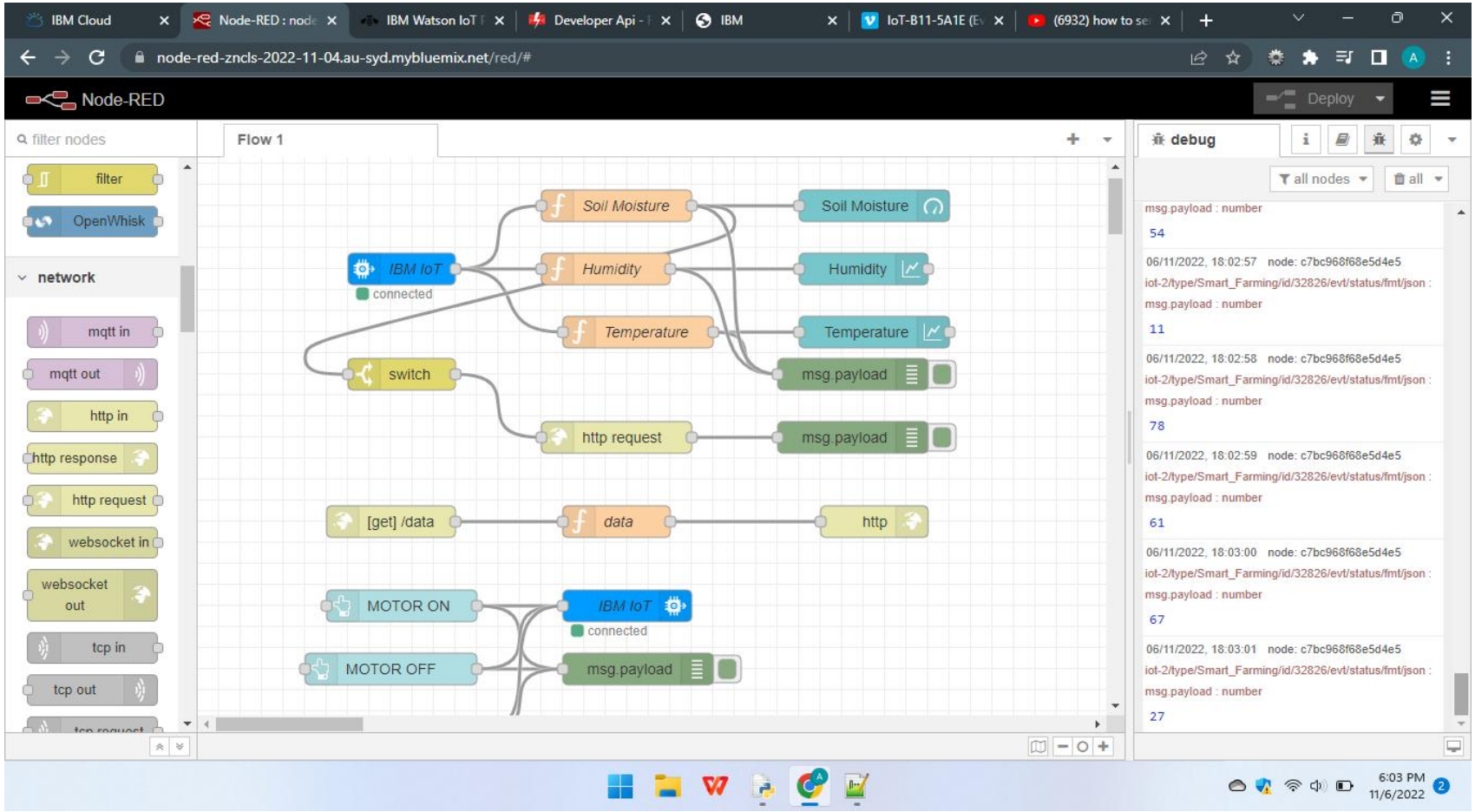
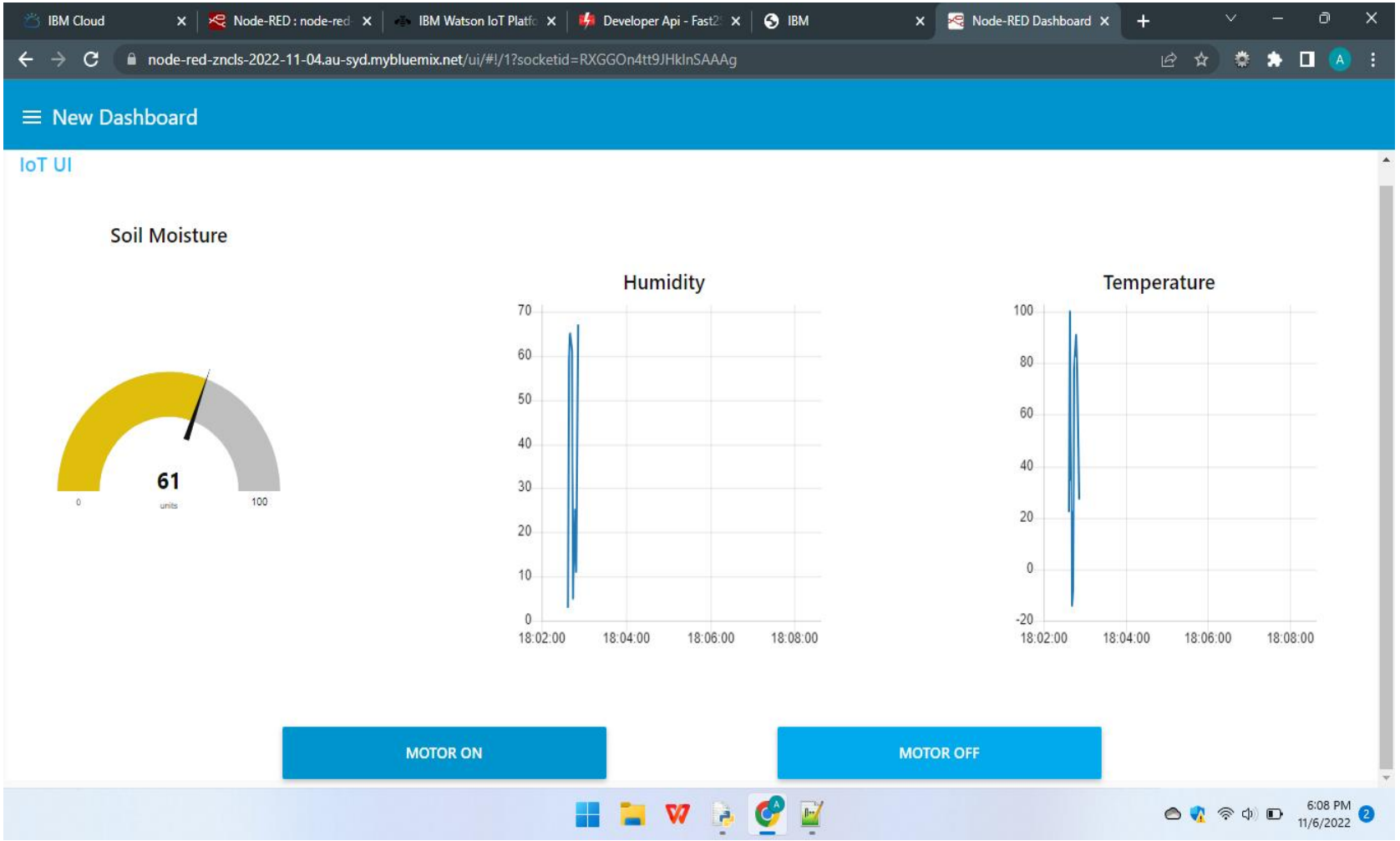
Build A Web Application Using Node-RED Service

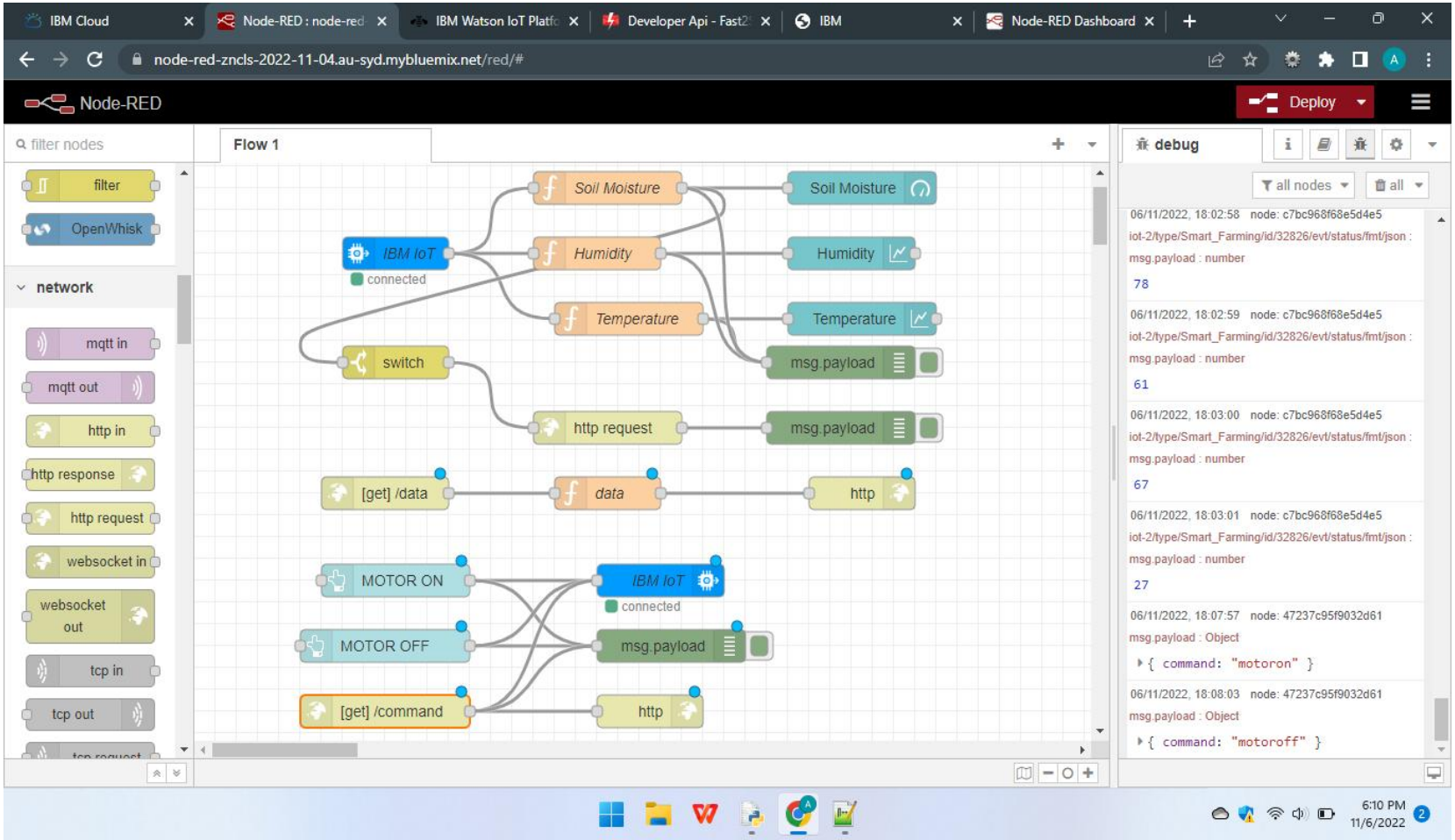
Date	06 November 2022
Team ID	PNT2022TMID32826
Project Name	Smart farmer - IoT Enabled Smart Farming Application




Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:\Users\A S ABISHEK\AppData\Local\Programs\Python\Python37\Python Code.py
2022-11-06 18:02:36,611 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:uq23sr:Smart_Farming:32826Published
data successfully: %s
{'soil_moisture': 96, 'temperature': 22, 'humidity': 3}
Published data successfully: %s {'soil_moisture': 69, 'temperature': 100, 'humidity': 59}
Published data successfully: %s {'soil_moisture': 20, 'temperature': -14, 'humidity': 65}
Published data successfully: %s {'soil_moisture': 71, 'temperature': -8, 'humidity': 61}
Published data successfully: %s {'soil_moisture': 11, 'temperature': 78, 'humidity': 5}
Published data successfully: %s {'soil_moisture': 69, 'temperature': 91, 'humidity': 25}
Published data successfully: %s {'soil_moisture': 54, 'temperature': 78, 'humidity': 11}
Published data successfully: %s {'soil_moisture': 61, 'temperature': 27, 'humidity': 67}
Traceback (most recent call last):
File "C:\Users\A S ABISHEK\AppData\Local\Programs\Python\Python37\Python Code.py", line 33, in <module>
time.sleep(2)
KeyboardInterrupt
>>>
Ln: 18 Col: 4
6:02 PM
11/6/2022


IBM Cloud
Node-RED : node
IBM Watson IoT
Developer Api -
IBM
IoT-B11-5A1E
(6932) how to se
node-red-zncls-2022-11-04.au-syd.mybluemix.net/red/#
Node-RED
Deploy
filter nodes
Flow 1
filter
OpenWhisk
network
mqtt in
mqtt out
http in
http response
http request
websocket in
websocket out
tcp in
tcp out
Soil Moisture
IBM IoT
connected
Humidity
Temperature
switch
http request
[get] /data
data
http
MOTOR ON
MOTOR OFF
IBM IoT
connected
msg.payload
Soil Moisture
Humidity
Temperature
msg.payload
msg.payload
debug
all nodes
all
msg.payload : number
54
06/11/2022, 18:02:57 node: c7bc968f68e5d4e5
iot-2/type/Smart_Farming/id/32826/evt/status/fmt/json :
msg.payload : number
11
06/11/2022, 18:02:58 node: c7bc968f68e5d4e5
iot-2/type/Smart_Farming/id/32826/evt/status/fmt/json :
msg.payload : number
78
06/11/2022, 18:02:59 node: c7bc968f68e5d4e5
iot-2/type/Smart_Farming/id/32826/evt/status/fmt/json :
msg.payload : number
61
06/11/2022, 18:03:00 node: c7bc968f68e5d4e5
iot-2/type/Smart_Farming/id/32826/evt/status/fmt/json :
msg.payload : number
67
06/11/2022, 18:03:01 node: c7bc968f68e5d4e5
iot-2/type/Smart_Farming/id/32826/evt/status/fmt/json :
msg.payload : number
27
6:03 PM
11/6/2022


IBM Cloud
Node-RED : node-red
IBM Watson IoT Platfc
Developer Api - Fast2
IBM
Node-RED Dashboard
node-red-zncls-2022-11-04.au-syd.mybluemix.net/ui/#!/1?socketid=RXGGOn4tt9JHklnSAAAg
New Dashboard
IoT UI
Soil Moisture
61
0
units
100
Humidity
70
60
50
40
30
20
10
0
18:02:00
18:04:00
18:06:00
18:08:00
Temperature
100
80
60
40
20
0
-20
18:02:00
18:04:00
18:06:00
18:08:00
MOTOR ON
MOTOR OFF
6:08 PM
11/6/2022


IBM Cloud
Node-RED : node-red
IBM Watson IoT Platfo
Developer Api - Fast2
IBM
Node-RED Dashboard
node-red-zncls-2022-11-04.au-syd.mybluemix.net/red/#
Node-RED
Deploy
filter nodes
Flow 1
filter
OpenWhisk
network
mqtt in
mqtt out
http in
http response
http request
websocket in
websocket out
tcp in
tcp out
Soil Moisture
IBM IoT
connected
Humidity
Temperature
switch
http request
[get] /data
data
http
MOTOR ON
MOTOR OFF
[get] /command
IBM IoT
connected
msg.payload
http
Soil Moisture
Humidity
Temperature
msg.payload
msg.payload
debug
all nodes
all
06/11/2022, 18:02:58 node: c7bc968f68e5d4e5
iot-2/type/Smart_Farming/id/32826/evt/status/fmt/json : msg.payload : number
78
06/11/2022, 18:02:59 node: c7bc968f68e5d4e5
iot-2/type/Smart_Farming/id/32826/evt/status/fmt/json : msg.payload : number
61
06/11/2022, 18:03:00 node: c7bc968f68e5d4e5
iot-2/type/Smart_Farming/id/32826/evt/status/fmt/json : msg.payload : number
67
06/11/2022, 18:03:01 node: c7bc968f68e5d4e5
iot-2/type/Smart_Farming/id/32826/evt/status/fmt/json : msg.payload : number
27
06/11/2022, 18:07:57 node: 47237c95f9032d61
msg.payload : Object
{ command: "motoron" }
06/11/2022, 18:08:03 node: 47237c95f9032d61
msg.payload : Object
{ command: "motoroff" }
6:10 PM
11/6/2022