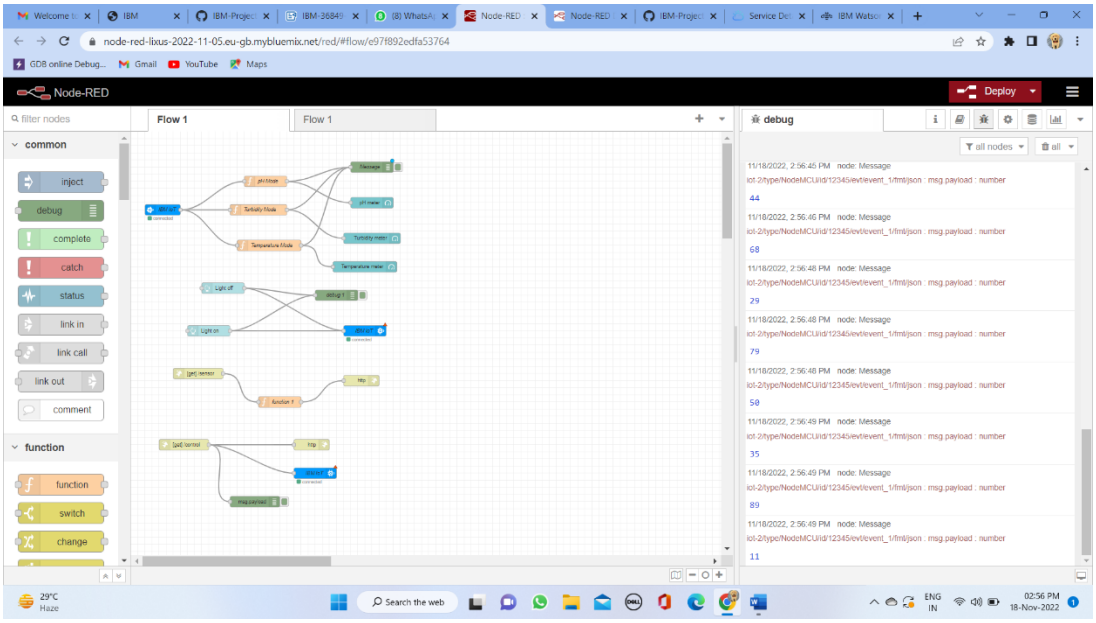
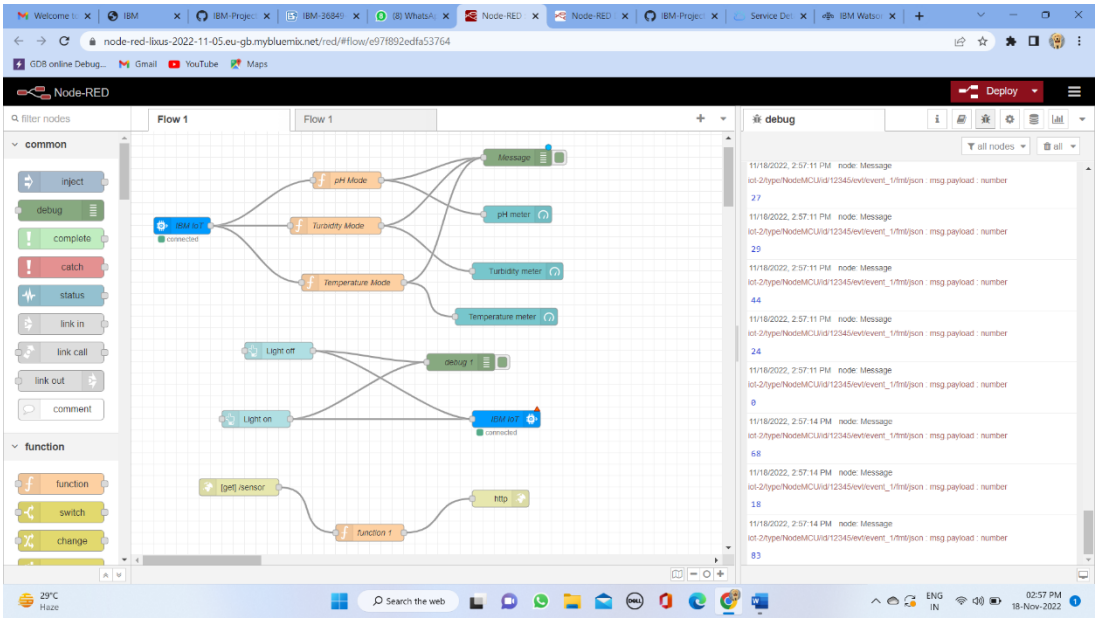
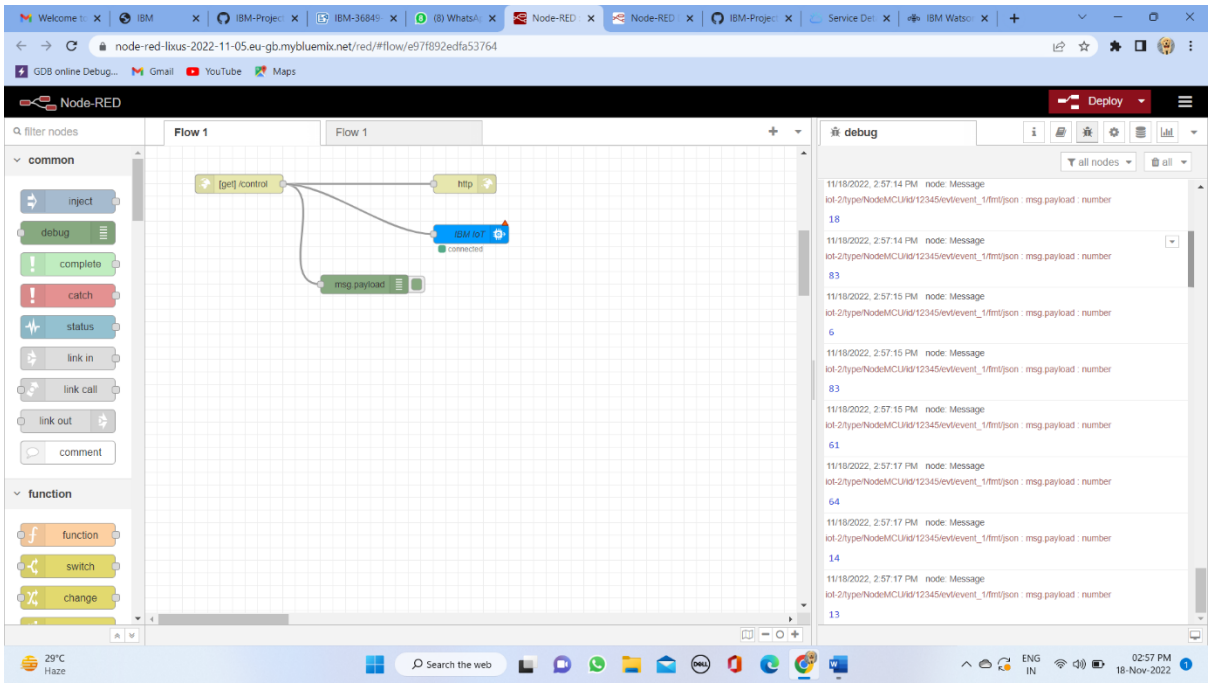
NODE RED ARCHITECHURE

TEAM ID	PNT2022TMID23797
PROJECT NAME	REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

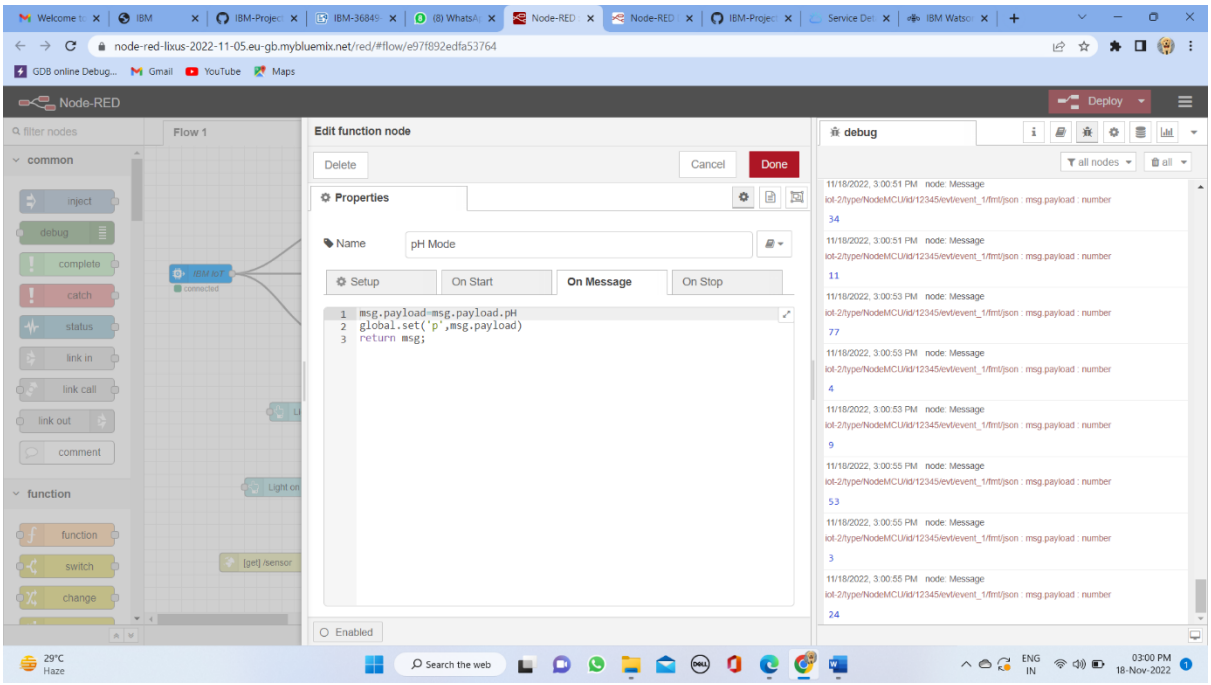
FULL ARCHITECHURE

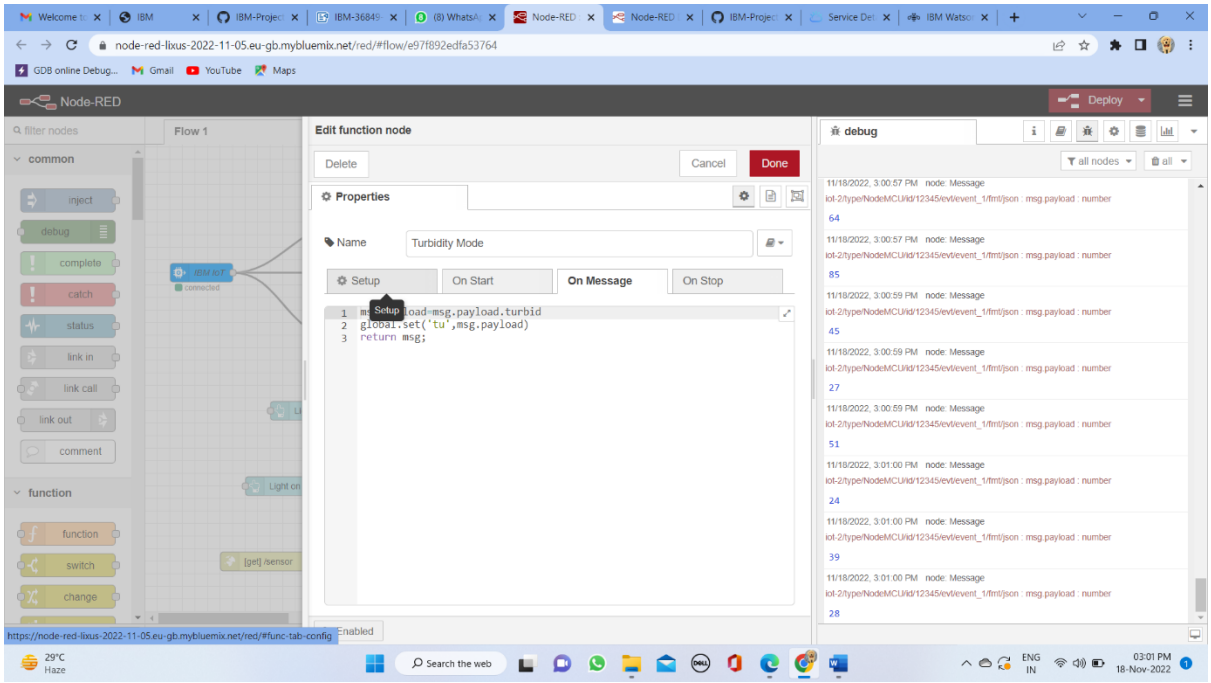


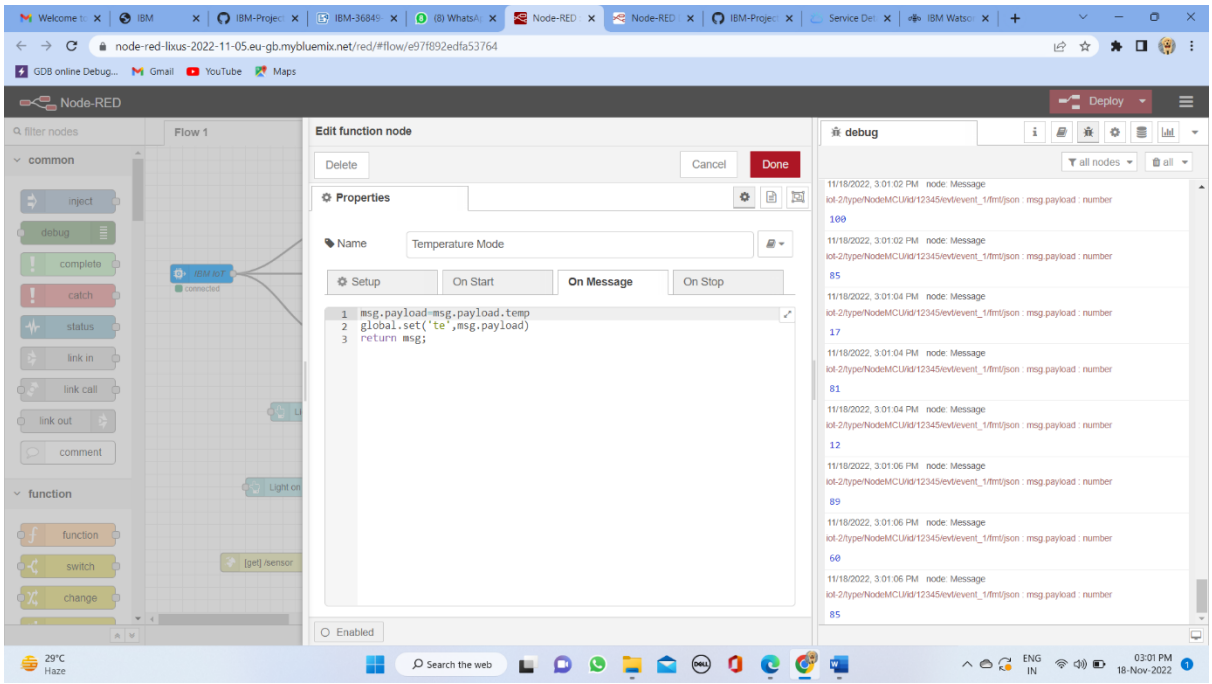




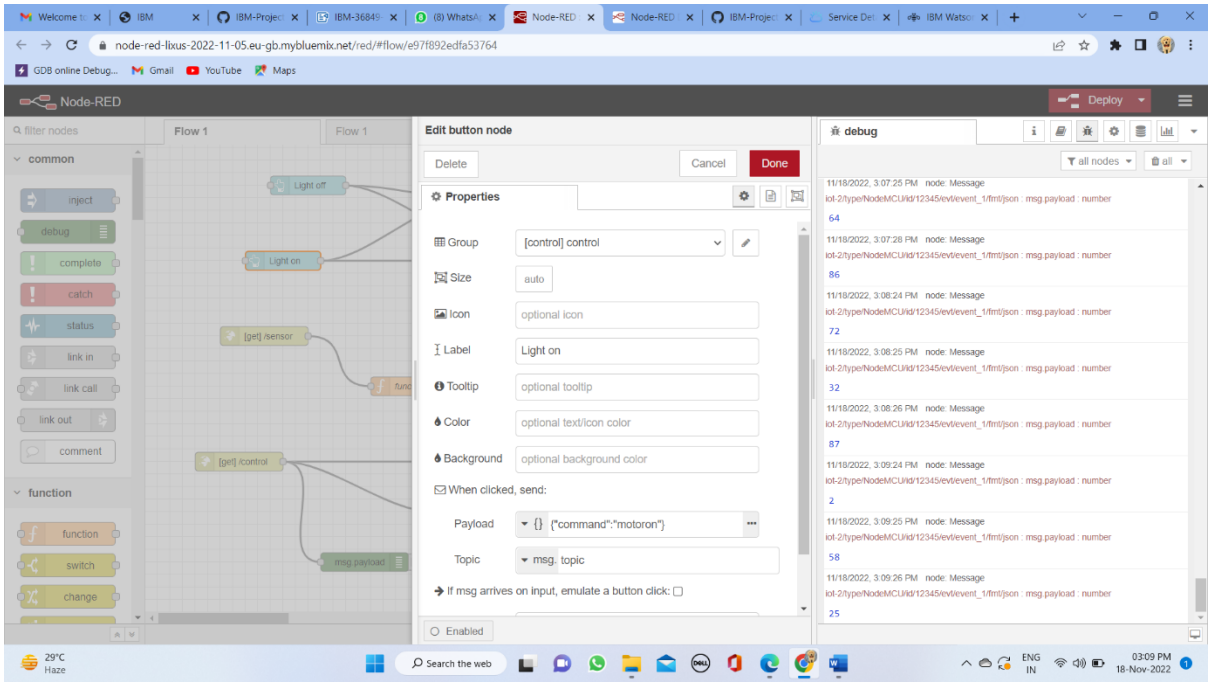
CONNECTING NODES TO IBM WATSON

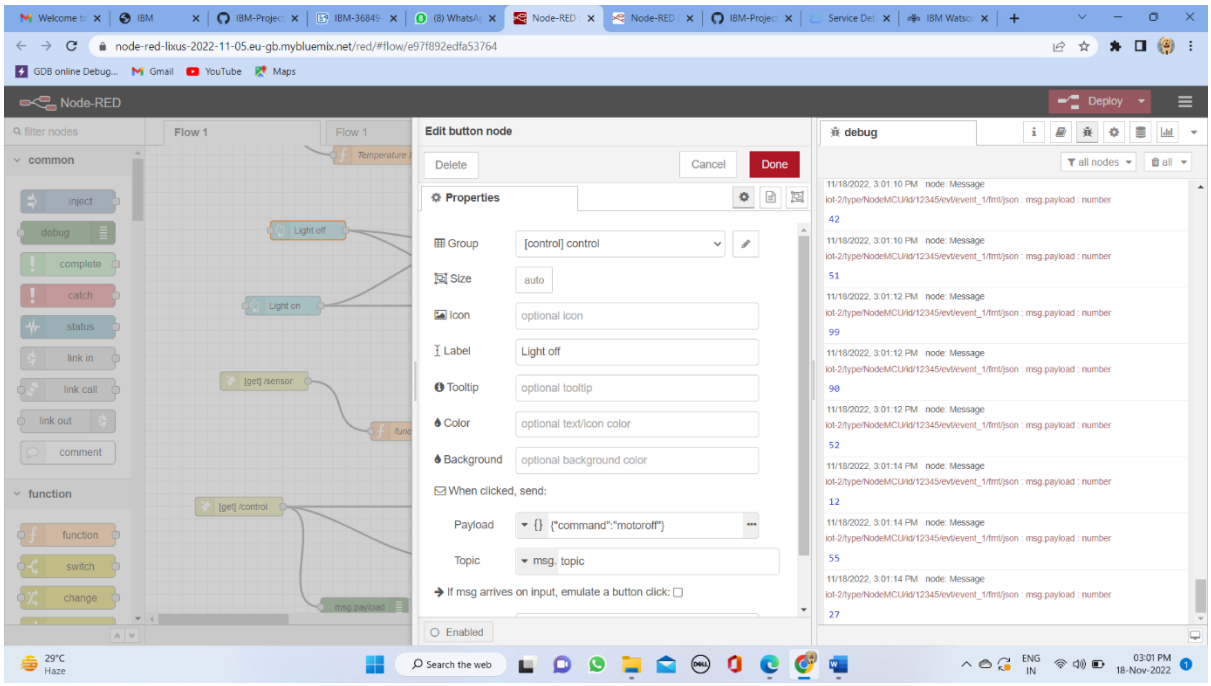



node-red-lixus-2022-11-05.eu-gb.mybluemix.net/red/#flow/e97f892edfa53764
Node-RED
Deploy
Flow 1
Edit function node
Delete
Cancel
Done
Properties
Name
Turbidity Mode
Setup
On Start
On Message
On Stop
1 msg.payload=msg.payload.turbid
2 global.set('tu',msg.payload)
3 return msg;
Enabled
debug
all nodes
11/18/2022, 3:00:57 PM node: Message
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json : msg.payload : number
64
11/18/2022, 3:00:57 PM node: Message
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json : msg.payload : number
85
11/18/2022, 3:00:59 PM node: Message
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json : msg.payload : number
45
11/18/2022, 3:00:59 PM node: Message
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json : msg.payload : number
27
11/18/2022, 3:00:59 PM node: Message
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json : msg.payload : number
51
11/18/2022, 3:01:00 PM node: Message
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json : msg.payload : number
24
11/18/2022, 3:01:00 PM node: Message
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json : msg.payload : number
39
11/18/2022, 3:01:00 PM node: Message
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json : msg.payload : number
28
https://node-red-lixus-2022-11-05.eu-gb.mybluemix.net/red/#func-tab-config
29°C
Haze
Search the web
ENG
IN
03:01 PM
18-Nov-2022

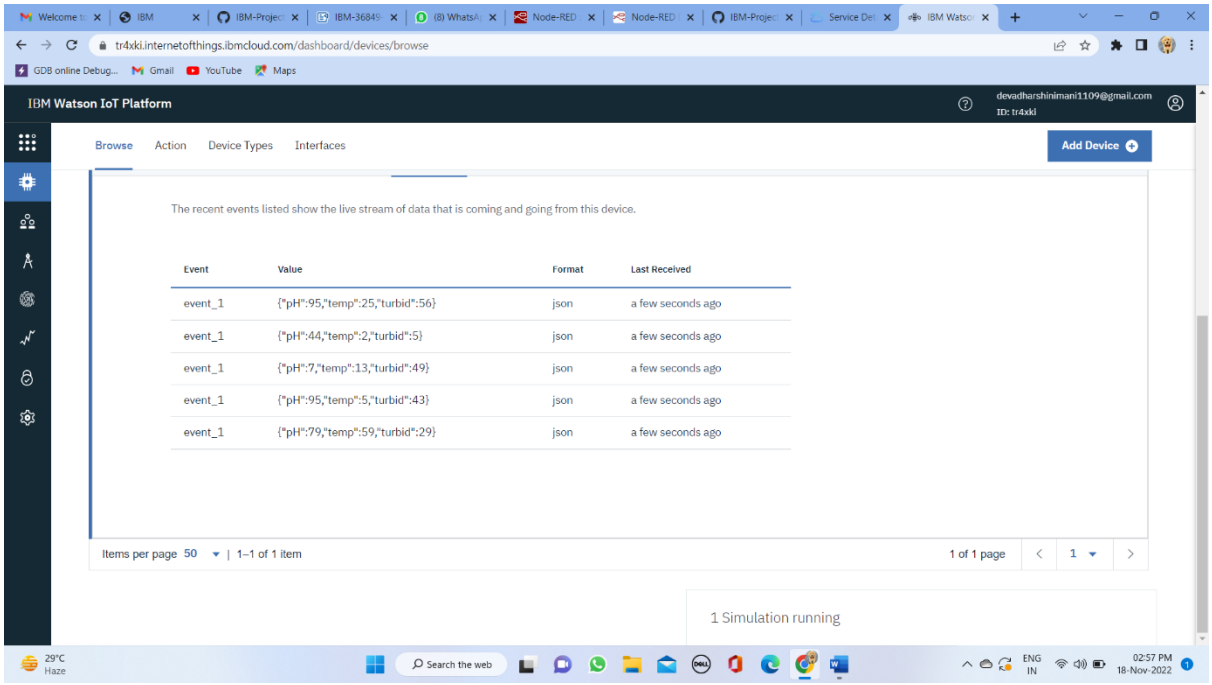

node-red-lixus-2022-11-05.eu-gb.mybluemix.net/red/#flow/e97f892edfa53764
Node-RED
Deploy
Flow 1
Edit function node
Delete
Cancel
Done
Properties
Name
Temperature Mode
Setup
On Start
On Message
On Stop
1 msg.payload=msg.payload.temp
2 global.set('te',msg.payload)
3 return msg;
Enabled
debug
all nodes
11/18/2022, 3:01:02 PM node: Message
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json : msg.payload : number
100
11/18/2022, 3:01:02 PM node: Message
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json : msg.payload : number
85
11/18/2022, 3:01:04 PM node: Message
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json : msg.payload : number
17
11/18/2022, 3:01:04 PM node: Message
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json : msg.payload : number
81
11/18/2022, 3:01:04 PM node: Message
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json : msg.payload : number
12
11/18/2022, 3:01:06 PM node: Message
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json : msg.payload : number
89
11/18/2022, 3:01:06 PM node: Message
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json : msg.payload : number
60
11/18/2022, 3:01:06 PM node: Message
iot-2/type/NodeMCU/id/12345/evt/event_1/fmt/json : msg.payload : number
85
29°C
Haze
Search the web
ENG
IN
03:01 PM
18-Nov-2022

CONNECTING LIGHT SWTICHING TO IBM WATSON





IBM WATSON SIMULATION OUTPUT



NODE RED SIMULATION OUTPUT