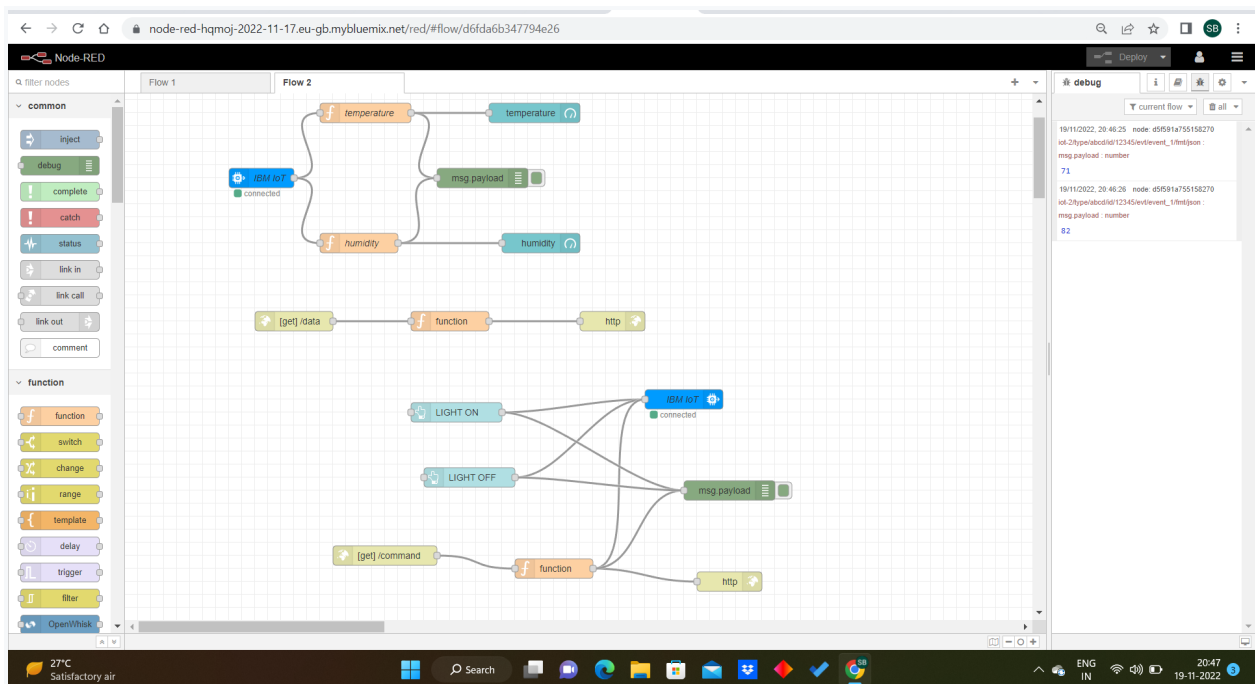


# CONFIGURE THE APPLICATION TO RECEIVE THE DATA FROM CLOUD

TEAM ID PNT2022TMID02630

## NODE RED FLOW CREATED TO GET VALUES



# CONFIGURING THE FUNCTION TO FETCH THE DESIRED VALUES

This screenshot shows the Node-RED web interface. The main workspace displays a flow with an IBM IoT node connected to two function nodes, which are then connected to temperature and humidity output nodes. The left sidebar shows the 'common' and 'function' node palettes. The right sidebar shows the 'Edit ibmiot in node' configuration panel. The configuration panel includes fields for Authentication (API Key), API Key (b455e5e5947d088a), Input Type (Device Event), Device Type (All or +), Device Id (device id e.g. abt2cd231a21), Event (All or +), Format (All or json), QoS (0), Name (IBM IoT), and Service (registered). A yellow warning box is present, stating: 'Use the Input Type property to configure this node to receive Events sent by IoT Devices, Commands sent to IoT Devices, Status Messages referring to IoT Devices, or Status Messages referring to IoT Applications. Check the info tab, to get more information about each of the fields'.

This screenshot shows the Node-RED web interface with the 'Edit function node' configuration panel open. The main workspace shows the same flow as the previous screenshot. The 'Edit function node' panel shows the Name field set to 'temperature'. The 'Setup' tab is selected, and the function code is as follows:

```
1 global.set("temperature",msg.payload.temp);
2 msg.payload=msg.payload.temp;
3 return msg;
```

node-red-hqmoj-2022-11-17.eu-gb.mybluemix.net/red/#flow/d6fda6b347794e26

Node-RED

Flow 1 Flow 2

common

- inject
- debug
- complete
- catch
- status
- link in
- link call
- link out
- comment

function

- function
- switch
- change
- range

Flow 1

Flow 2

debug

iot-2/type/efghid/56789/ev/ev/1/1/m/1/json :  
msg payload : number  
60

19/11/2022, 18:30:27 node: d5591a755158270  
iot-2/type/efghid/56789/ev/ev/1/1/m/1/json :  
msg payload : number  
83

19/11/2022, 18:30:44 node: 9fba0e490ab84a3  
msg payload : string[7]  
"lighton"

19/11/2022, 18:30:50 node: d5591a755158270  
iot-2/type/efghid/56789/ev/ev/1/1/m/1/json :  
msg payload : number  
43

19/11/2022, 18:30:51 node: d5591a755158270  
iot-2/type/efghid/56789/ev/ev/1/1/m/1/json :  
msg payload : number  
81

19/11/2022, 18:30:51 node: d5591a755158270  
iot-2/type/abcdid/12345/ev/ev/1/1/m/1/json :  
msg payload : number  
27

19/11/2022, 18:30:51 node: d5591a755158270  
iot-2/type/abcdid/12345/ev/ev/1/1/m/1/json :  
msg payload : number  
86

node-red-hqmoj-2022-11-17.eu-gb.mybluemix.net/red/#flow/d6fda6b347794e26

Node-RED

Flow 1 Flow 2

common

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- comment

function

- function
- switch
- change
- range

Flow 1

Flow 2

debug

lighton

19/11/2022, 18:30:50 node: d5591a755158270  
iot-2/type/efghid/56789/ev/ev/1/1/m/1/json :  
msg payload : number  
43

19/11/2022, 18:30:51 node: d5591a755158270  
iot-2/type/efghid/56789/ev/ev/1/1/m/1/json :  
msg payload : number  
81

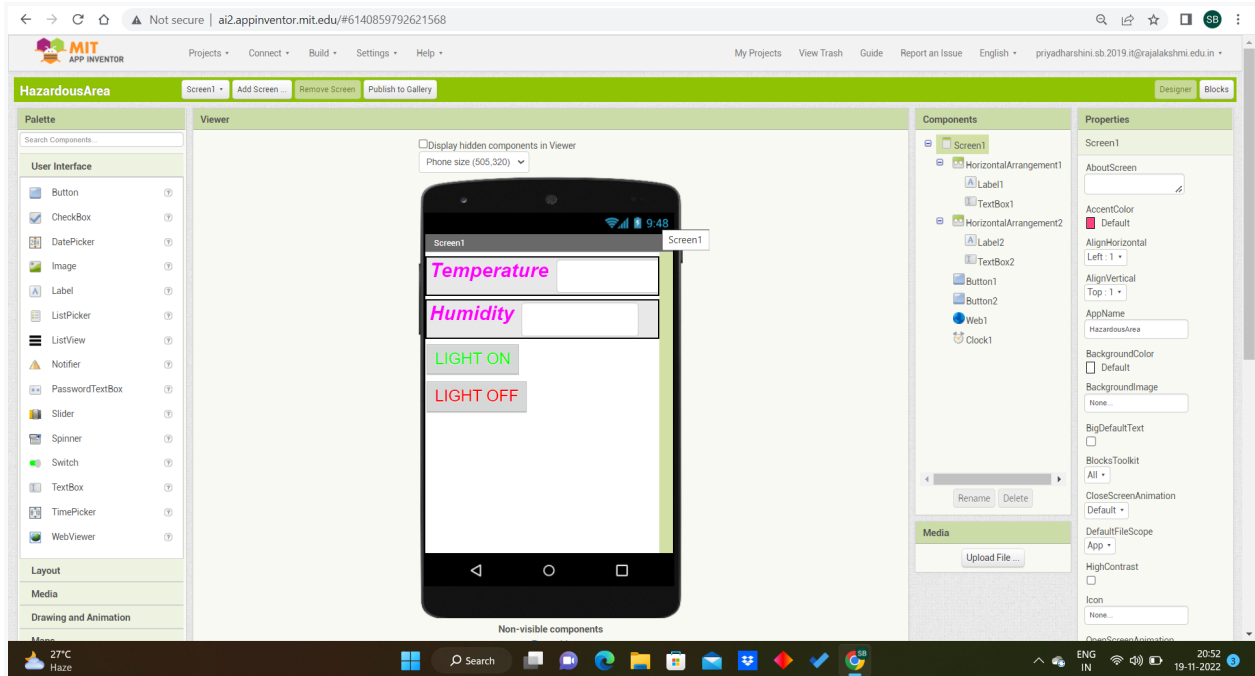
19/11/2022, 18:30:51 node: d5591a755158270  
iot-2/type/abcdid/12345/ev/ev/1/1/m/1/json :  
msg payload : number  
27

19/11/2022, 18:30:51 node: d5591a755158270  
iot-2/type/abcdid/12345/ev/ev/1/1/m/1/json :  
msg payload : number  
86

19/11/2022, 18:31:16 node: 9fba0e490ab84a3  
msg payload : string[8]  
"lightoff"

19/11/2022, 18:31:18 node: 9fba0e490ab84a3  
msg payload : string[8]  
"lightoff"

19/11/2022, 18:31:19 node: 9fba0e490ab84a3  
msg payload : string[8]  
"lightoff"



## APP BLOCKS TO RENDER THE VALUES AND DISPLAY IT IN THE APP

