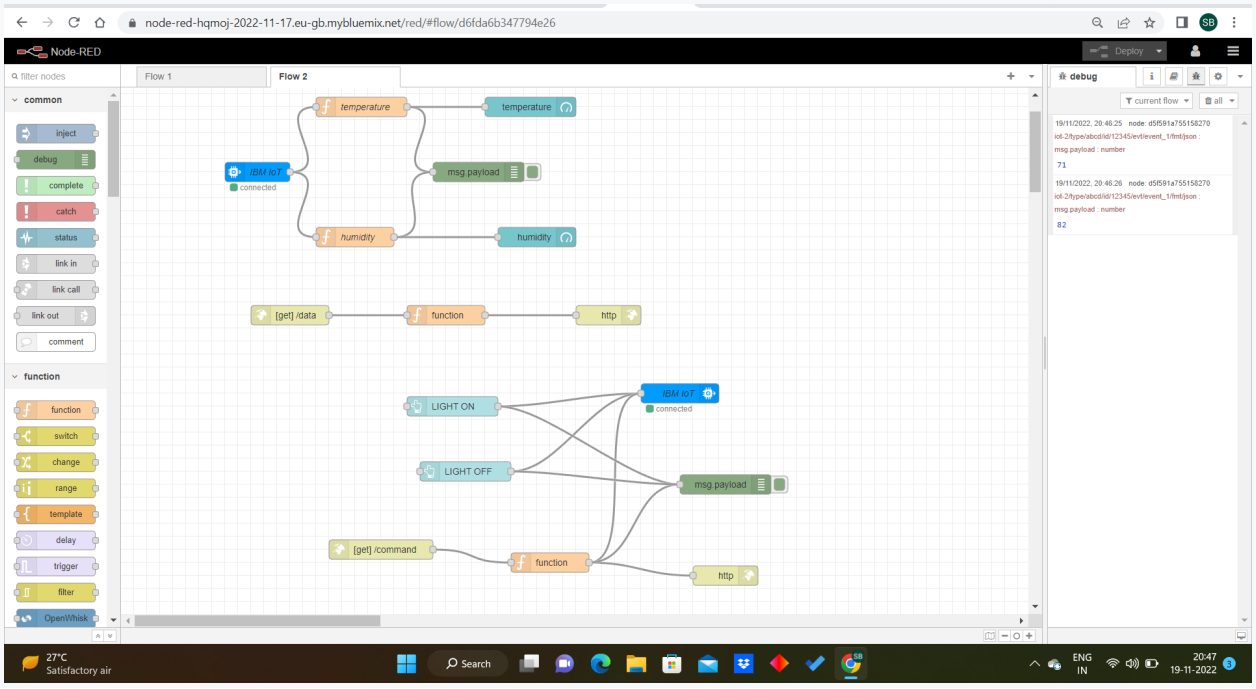
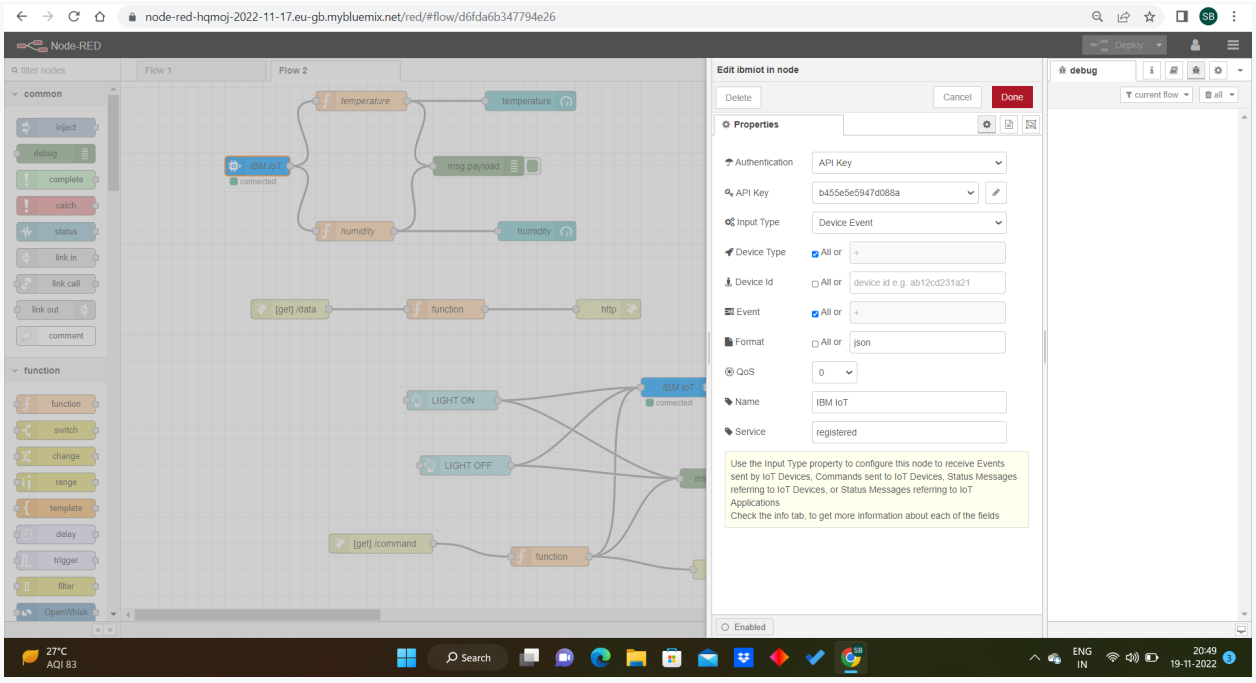
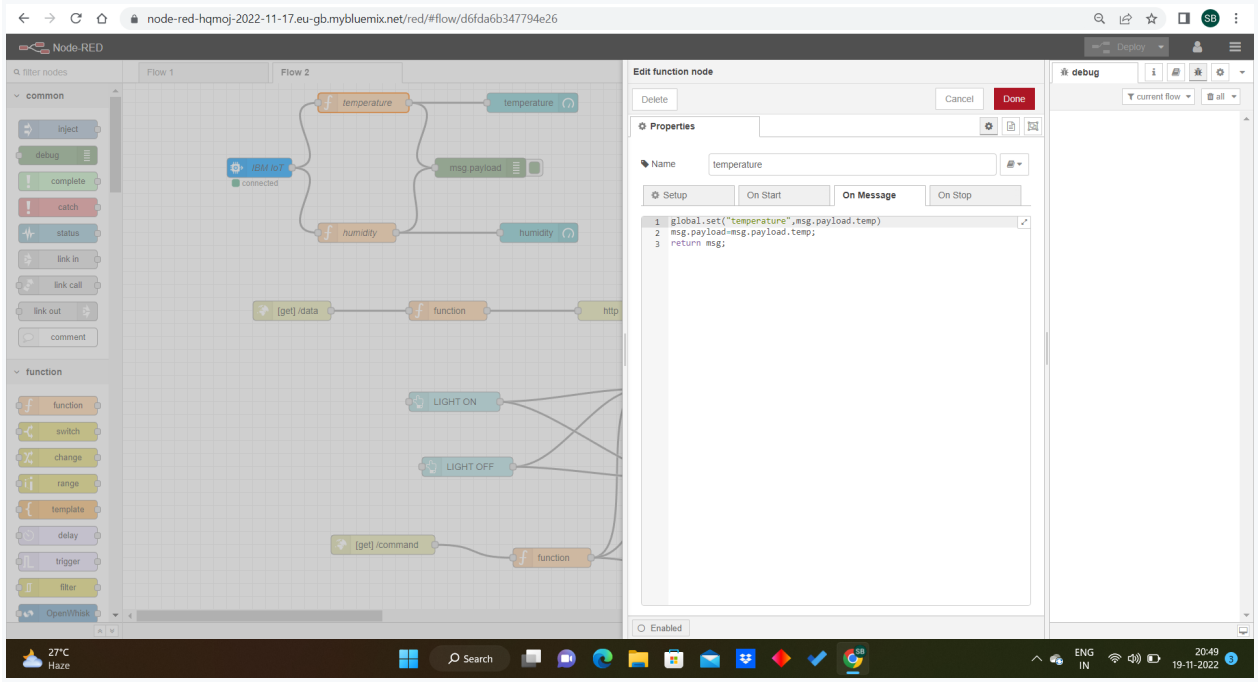
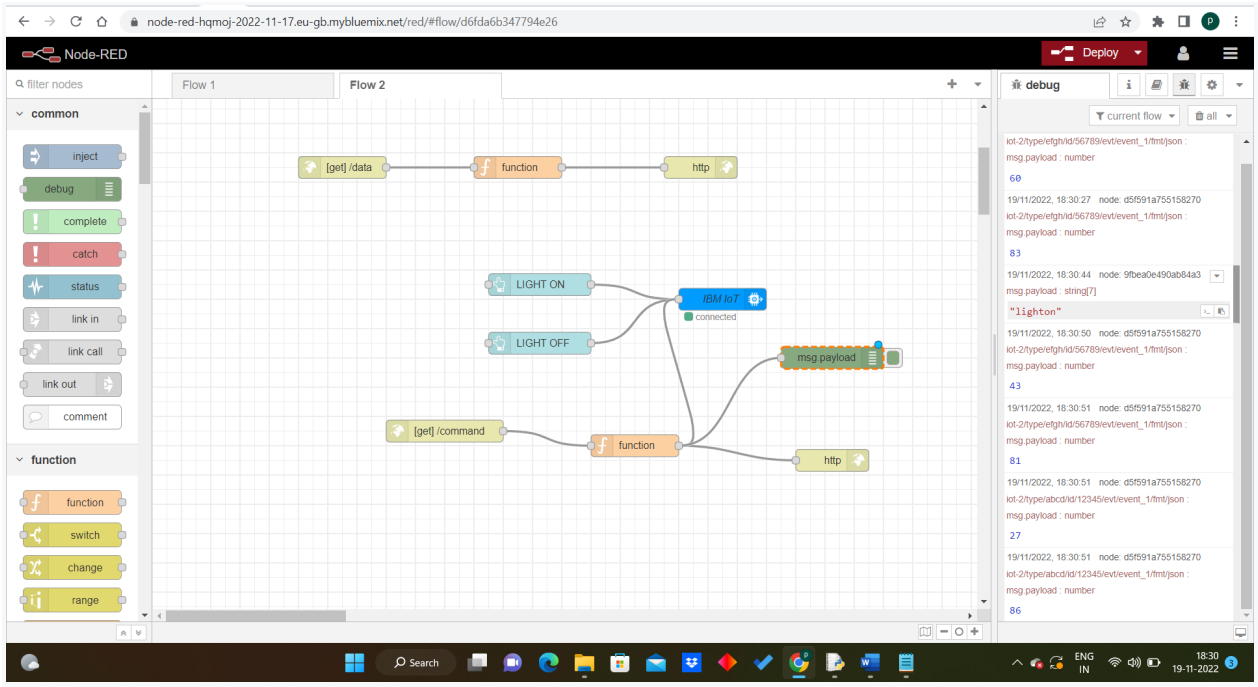
CONFIGURE THE MOBILE APP FOR CONTROLLING MOTOR USING BUTTONS

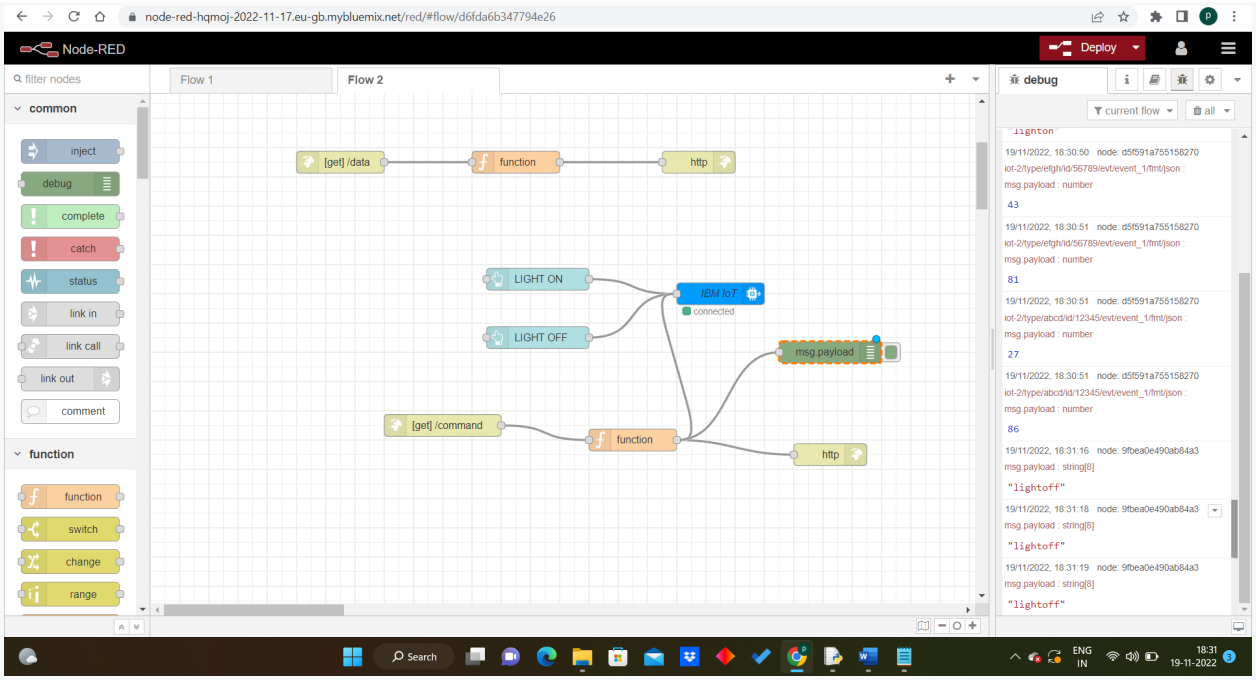
TEAM ID PNT2022TMID02630

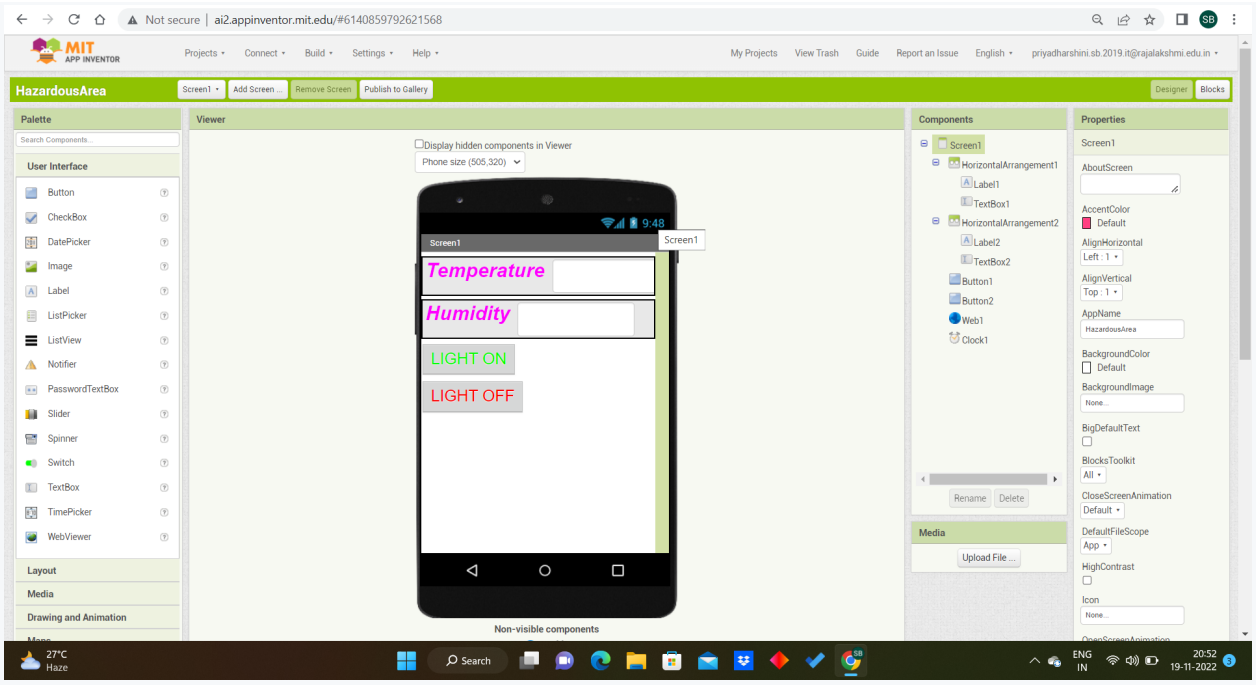


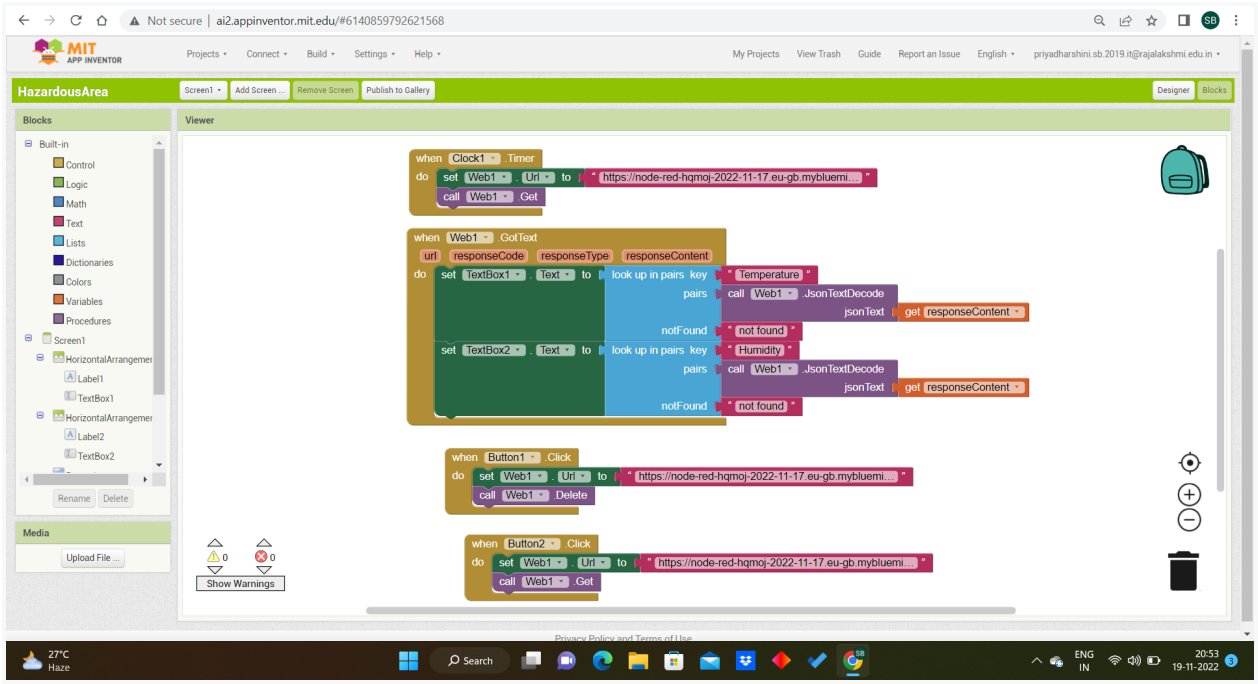


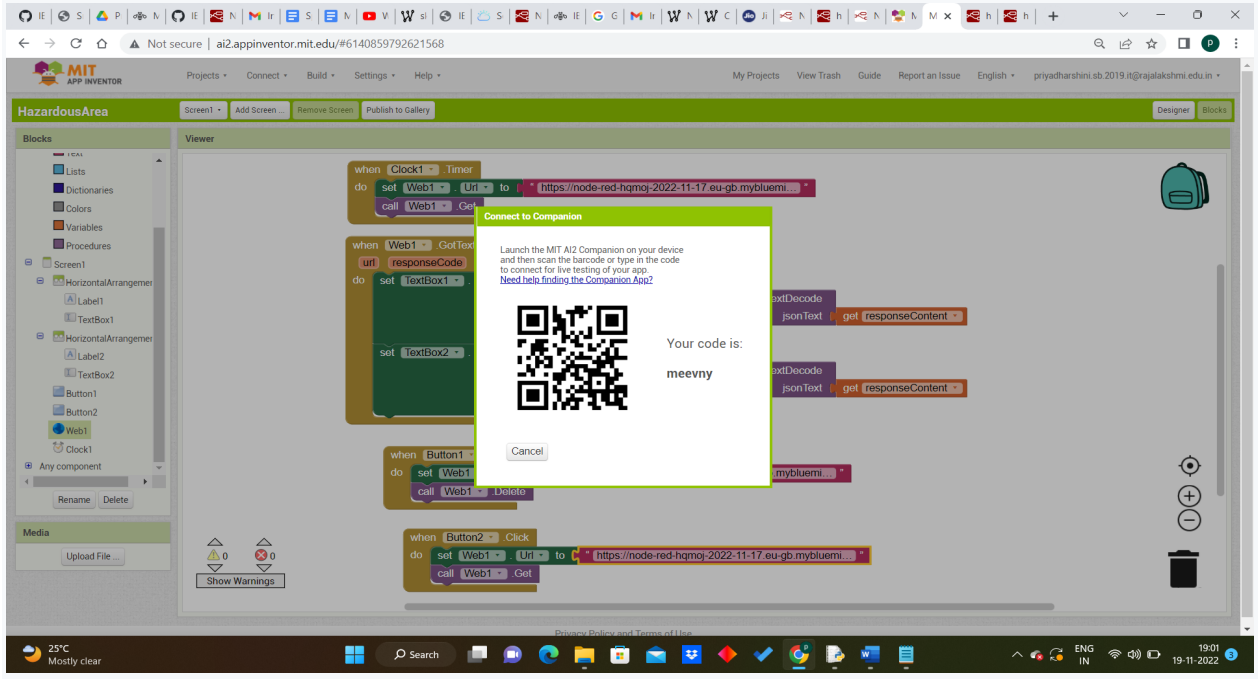

node-red-hqmoj-2022-11-17.eu-gb.mybluemix.net/red/#flow/d6fda6b347794e26
Node-RED
Flow 1
Flow 2
temperature
IBM IoT
connected
msg.payload
humidity
[get] /data
function
http
LIGHT ON
LIGHT OFF
[get] /command
Edit function node
Delete
Cancel
Done
Properties
Name
Setup
On Start
On Message
On Stop
global.set("temperature",msg.payload.temp)
msg.payload=msg.payload.temp;
return msg;
Enabled
debug
27°C
Haze
Search
ENG
IN
20:49
19-11-2022

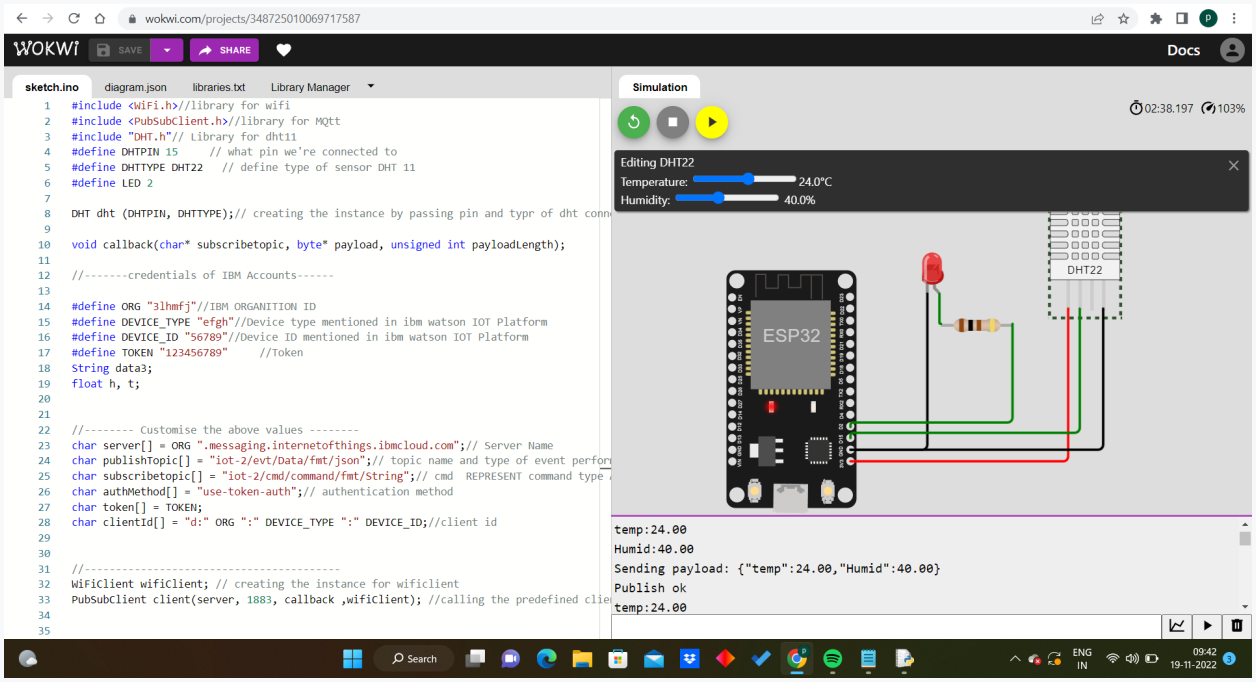

node-red-hqmoj-2022-11-17.eu-gb.mybluemix.net/red/#flow/d6fda6b347794e26
Node-RED
Deploy
filter nodes
Flow 1
Flow 2
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
switch
change
range
[get] /data
function
http
LIGHT ON
LIGHT OFF
IBM IoT
connected
msg.payload
[get] /command
function
http
debug
current flow
all
19/11/2022, 18:30:27 node: d5f591a755158270
iot-2/type/efgh/id/56789/evt/event_1/fmt/json : msg.payload : number
83
19/11/2022, 18:30:44 node: 9fbea0e490ab84a3
msg.payload : string[7]
"lighton"
19/11/2022, 18:30:50 node: d5f591a755158270
iot-2/type/efgh/id/56789/evt/event_1/fmt/json : msg.payload : number
43
19/11/2022, 18:30:51 node: d5f591a755158270
iot-2/type/efgh/id/56789/evt/event_1/fmt/json : msg.payload : number
81
19/11/2022, 18:30:51 node: d5f591a755158270
iot-2/type/abcd/id/12345/evt/event_1/fmt/json : msg.payload : number
27
19/11/2022, 18:30:51 node: d5f591a755158270
iot-2/type/abcd/id/12345/evt/event_1/fmt/json : msg.payload : number
86
Search
ENG
IN
18:30
19-11-2022


node-red-hqmoj-2022-11-17.eu-gb.mybluemix.net/red/#flow/d6fda6b347794e26
Node-RED
Deploy
Flow 1
Flow 2
debug
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
switch
change
range
[get] /data
function
http
LIGHT ON
LIGHT OFF
IBM IoT
connected
msg.payload
[get] /command
function
http
19/11/2022, 18:30:50 node: d5f591a755158270
iot-2/type/efgh/id/56789/evt/event_1/fmt/json : msg.payload : number
43
19/11/2022, 18:30:51 node: d5f591a755158270
iot-2/type/efgh/id/56789/evt/event_1/fmt/json : msg.payload : number
81
19/11/2022, 18:30:51 node: d5f591a755158270
iot-2/type/abcd/id/12345/evt/event_1/fmt/json : msg.payload : number
27
19/11/2022, 18:30:51 node: d5f591a755158270
iot-2/type/abcd/id/12345/evt/event_1/fmt/json : msg.payload : number
86
19/11/2022, 18:31:16 node: 9fbea0e490ab84a3
msg.payload : string[8]
"lightoff"
19/11/2022, 18:31:18 node: 9fbea0e490ab84a3
msg.payload : string[8]
"lightoff"
19/11/2022, 18:31:19 node: 9fbea0e490ab84a3
msg.payload : string[8]
"lightoff"


Not secure | ai2.appinventor.mit.edu/#6140859792621568
MIT APP INVENTOR
HazardousArea
Palette
Viewer
Components
Properties
Temperature
Humidity
LIGHT ON
LIGHT OFF
Non-visible components


Not secure | ai2.appinventor.mit.edu/#6140859792621568
HazardousArea
Blocks
Viewer
when Clock1 .Timer
do set Web1 . Url to "https://node-red-hqmoj-2022-11-17.eu-gb.mybluemi..."
call Web1 .Get
when Web1 .GotText
url responseCode responseType responseContent
set TextBox1 . Text to look up in pairs key "Temperature"
pairs call Web1 .JsonTextDecode
jsonText get responseContent
notFound "not found"
set TextBox2 . Text to look up in pairs key "Humidity"
when Button1 .Click
call Web1 .Delete
when Button2 .Click
Show Warnings
Media
Upload File ...
27°C
Haze
Search
ENG
IN
20:53
19-11-2022


Not secure | ai2.appinventor.mit.edu/#6140859792621568
HazardousArea
Blocks
Viewer
Connect to Companion
Launch the MIT AI2 Companion on your device and then scan the barcode or type in the code to connect for live testing of your app.
Need help finding the Companion App?
Your code is:
meevny
Cancel
Show Warnings
Media
Upload File ...
25°C
Mostly clear
Search
ENG
IN
19:01
19-11-2022


wokwi.com/projects/348725010069717587
WOKWI
SAVE
SHARE
Docs
sketch.ino
diagram.json
libraries.txt
Library Manager
#include <WiFi.h>//library for wifi
#include <PubSubClient.h>//library for MQtt
#include "DHT.h"// Library for dht11
#define DHTPIN 15 // what pin we're connected to
#define DHTTYPE DHT22 // define type of sensor DHT 11
#define LED 2
DHT dht (DHTPIN, DHTTYPE);// creating the instance by passing pin and typr of dht conn
void callback(char* subscribetopic, byte* payload, unsigned int payloadLength);
//-------credentials of IBM Accounts------
#define ORG "3lhmfj"//IBM ORGANITION ID
#define DEVICE_TYPE "efgh"//Device type mentioned in ibm watson IOT Platform
#define DEVICE_ID "56789"//Device ID mentioned in ibm watson IOT Platform
#define TOKEN "123456789" //Token
String data3;
float h, t;
//-------- Customise the above values --------
char server[] = ORG ".messaging.internetofthings.ibmcloud.com";// Server Name
char publishTopic[] = "iot-2/evt/Data/fmt/json";// topic name and type of event perfor
char subscribetopic[] = "iot-2/cmd/command/fmt/String";// cmd REPRESENT command type
char authMethod[] = "use-token-auth";// authentication method
char token[] = TOKEN;
char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID;//client id
//---
WiFiClient wifiClient; // creating the instance for wificlient
PubSubClient client(server, 1883, callback ,wifiClient); //calling the predefined clie
Simulation
02:38.197
103%
Editing DHT22
Temperature: 24.0°C
Humidity: 40.0%
ESP32
DHT22
temp:24.00
Humid:40.00
Sending payload: {"temp":24.00,"Humid":40.00}
Publish ok
temp:24.00
Search
ENG
IN
09:42
19-11-2022


7:05 PM
Screen1
Temperature
25
Humidity
82
LIGHT ON
LIGHT OFF