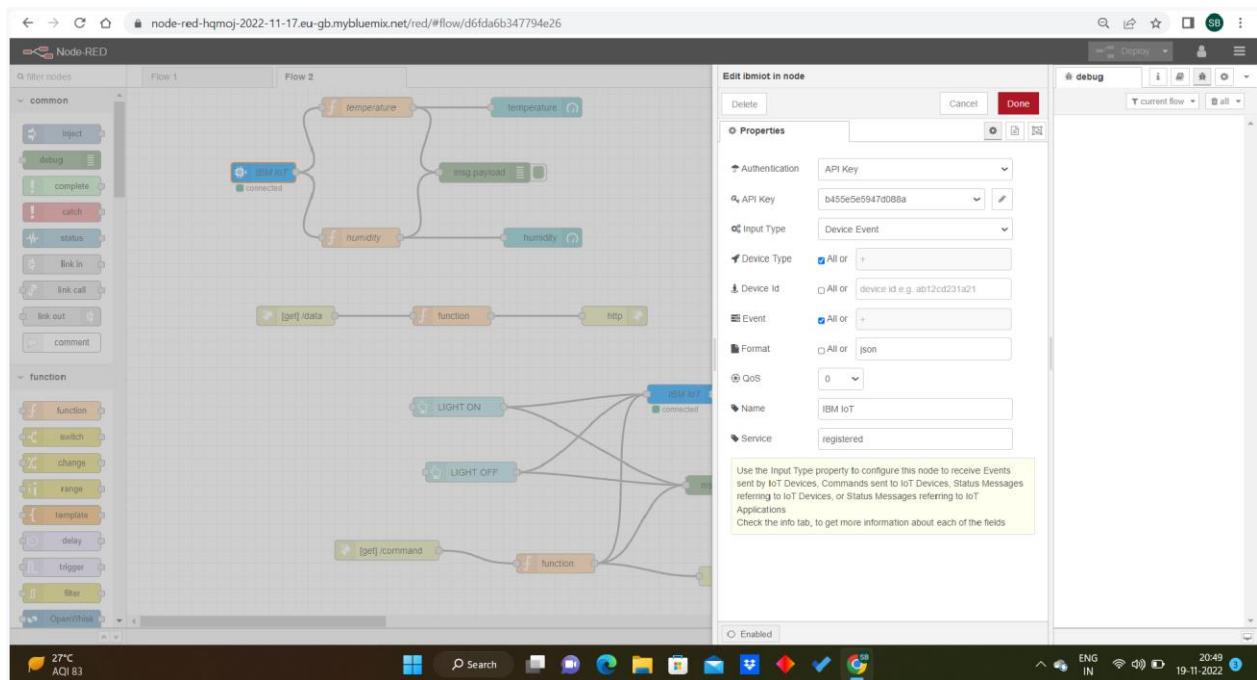
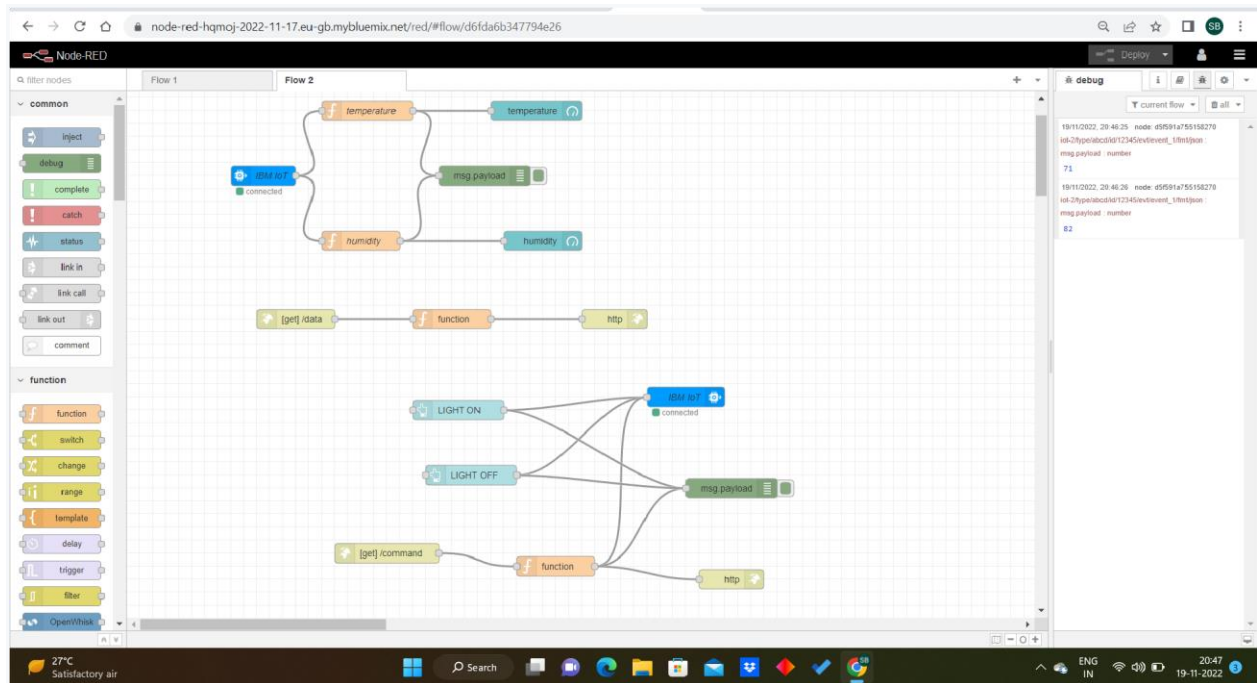


CONFIGURE THE MOBILE APP FOR CONTROLLING MOTOR USING BUTTONS

TEAM ID PNT2022TMID14695



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

Node-RED

Filter nodes

common

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

function

- function
- switch
- change
- range
- template
- delay
- trigger
- filter
- Open/Close

Flow 1

Flow 2

temperature

humidity

msg.payload

function

http

get /data

function

LIGHT ON

LIGHT OFF

get /command

function

http

Edit function node

Properties

Name: temperature

Setup On Start On Message On Stop

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

debug

current flow

all

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

Filter nodes

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

function

- function
- switch
- change
- range

Flow 1

Flow 2

get /data

function

http

LIGHT ON

LIGHT OFF

get /command

function

http

msg.payload

debug

current flow

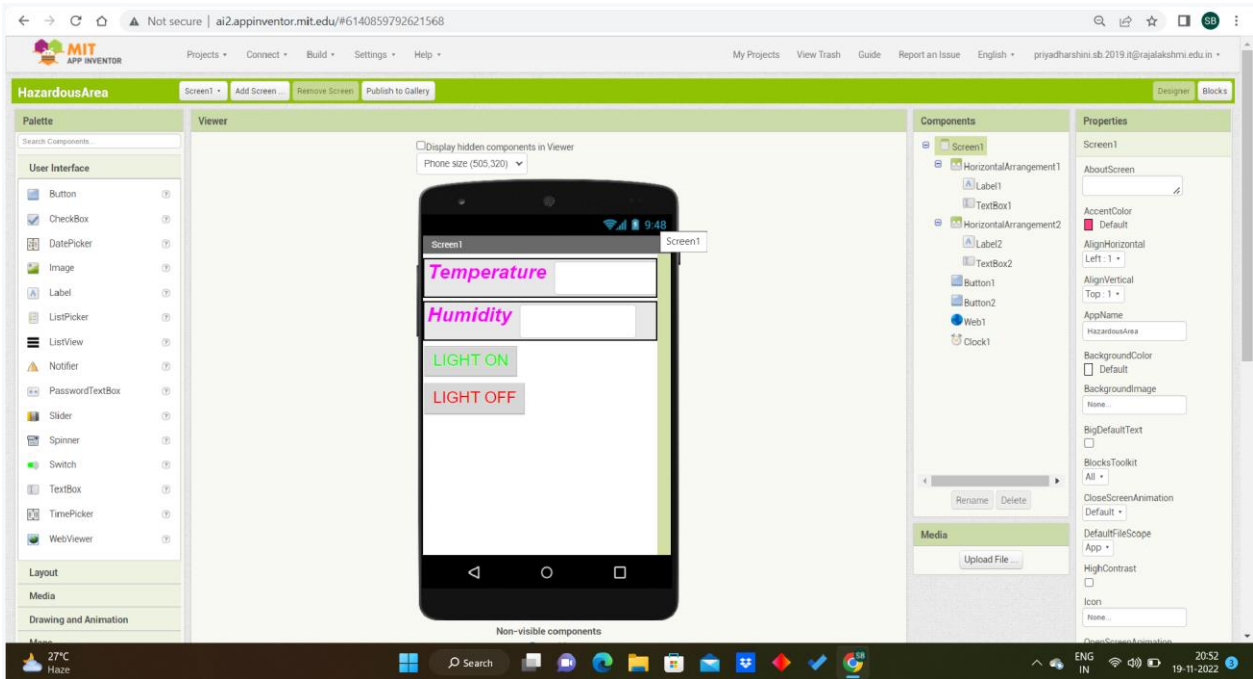
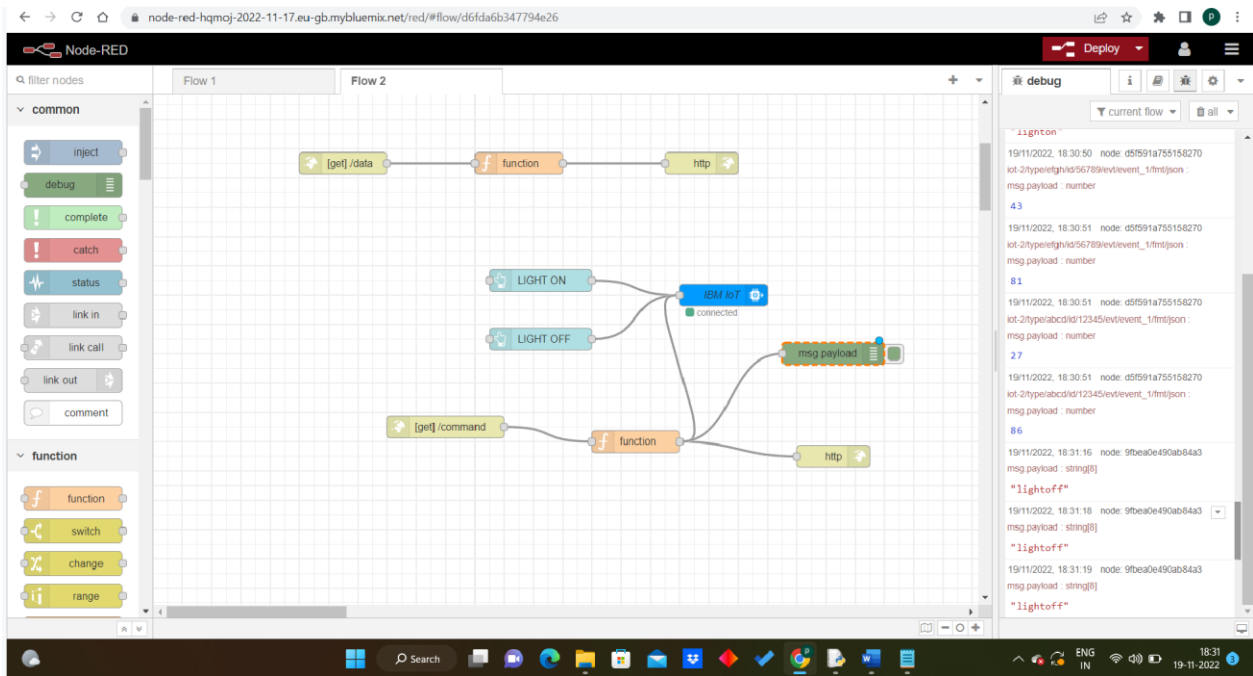
all

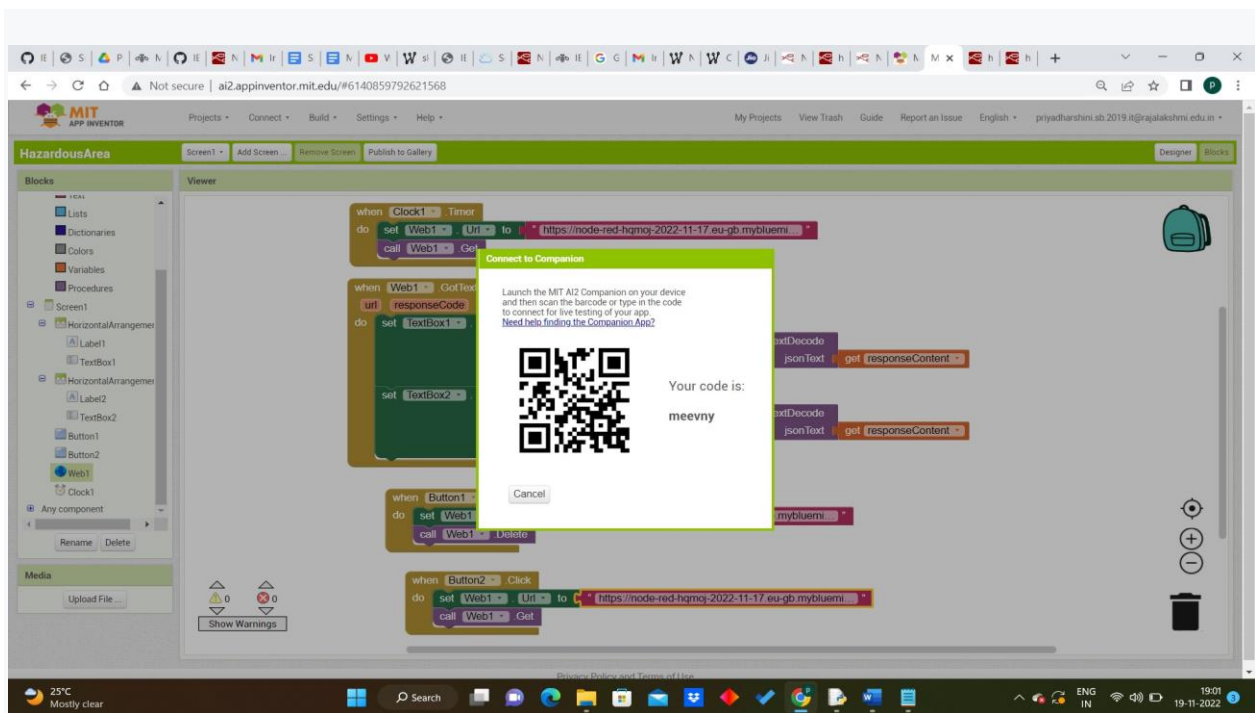
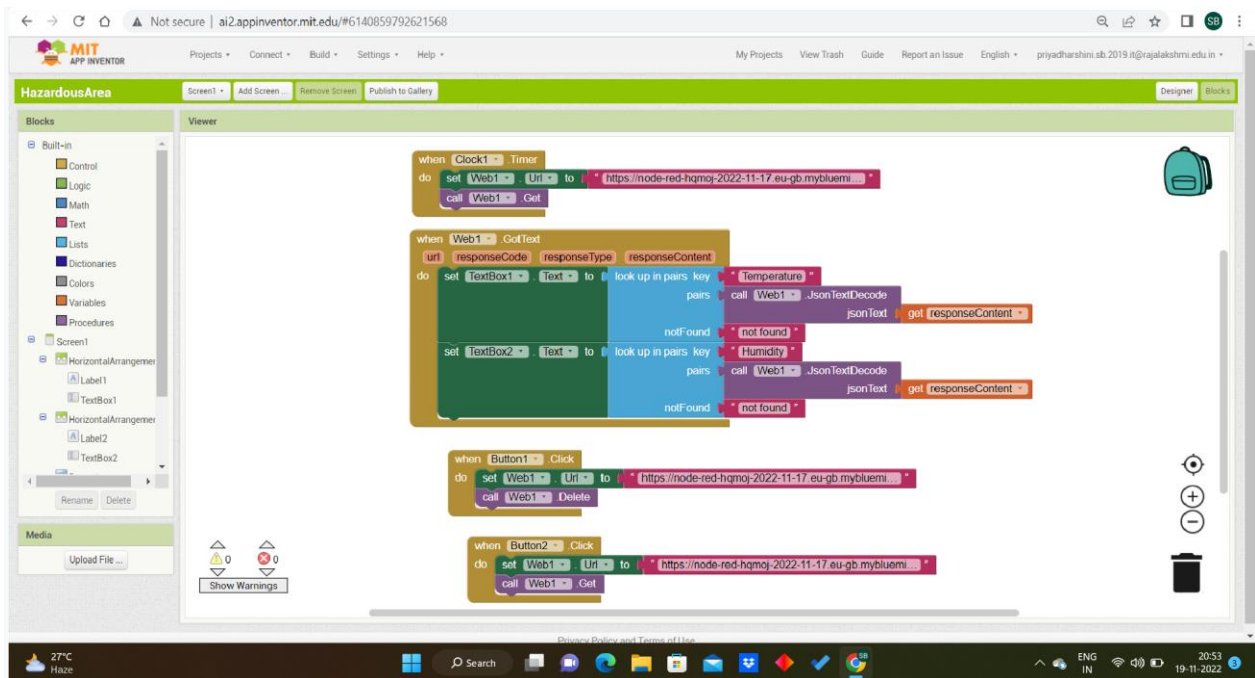
```
kt-2?type=ghid/56789@event_1/rtm/json :
msg.payload : number
60
19/11/2022, 18:30:27 node: d5591a755156270
kt-2?type=ghid/56789@event_1/rtm/json :
msg.payload : number
83
19/11/2022, 18:30:44 node: 9f8ea0e490ab84a3
msg.payload : string(7)
"lighton"
19/11/2022, 18:30:50 node: d5591a755156270
kt-2?type=ghid/56789@event_1/rtm/json :
msg.payload : number
43
19/11/2022, 18:30:51 node: d5591a755156270
kt-2?type=ghid/56789@event_1/rtm/json :
msg.payload : number
81
19/11/2022, 18:30:51 node: d5591a755156270
kt-2?type=abcd/12345@event_1/rtm/json :
msg.payload : number
27
19/11/2022, 18:30:51 node: d5591a755156270
kt-2?type=abcd/12345@event_1/rtm/json :
msg.payload : number
86
```

Search

ENG IN

18:38 19-11-2022





WOKWI

sketch.ino

```

1 #include <WiFi.h> //library for wifi
2 #include <PubSubClient.h> //library for MQTT
3 #include "DHT.h" // Library for dht11
4 #define DHTPIN 15 // what pin we're connected to
5 #define DHTTYPE DHT22 // define type of sensor DHT 11
6 #define LED 2
7
8 DHT dht (DHTPIN, DHTTYPE); // creating the instance by passing pin and type of dht conn
9
10 void callback(char* topic, byte* payload, unsigned int payloadLength);
11
12 //-----credentials of IBM Accounts-----
13
14 #define ORG "3lhmj" //IBM ORGANIZATION ID
15 #define DEVICE_TYPE "efgh" //Device type mentioned in ibm watson IOT Platform
16 #define DEVICE_ID "56789" //Device ID mentioned in ibm watson IOT Platform
17 #define TOKEN "123456789" //Token
18 String data;
19 float h, t;
20
21
22 //----- Customise the above values -----
23 char server[] = ORG ".messaging.internetofthings.ibmcloud.com"; // Server Name
24 char publishTopic[] = "iot-2/evt/Data/fmt/json"; // topic name and type of event perform
25 char subscribTopic[] = "iot-2/cmd/command/fmt/String"; // cmd REPRESENT command type
26 char authMethod[] = "use-token-auth"; // authentication method
27 char token[] = TOKEN;
28 char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID; //client id
29
30
31 //-----
32 WiFiClient wificlient; // creating the instance for wificlient
33 PubSubClient client(server, 1883, callback, wificlient); //calling the predefined client
34
35

```

Simulation

Editing DHT22

Temperature: 24.0°C

Humidity: 40.0%

temp:24.00
Humid:40.00
Sending payload: {"temp":24.00,"Humid":40.00}
Publish ok
temp:24.00

