

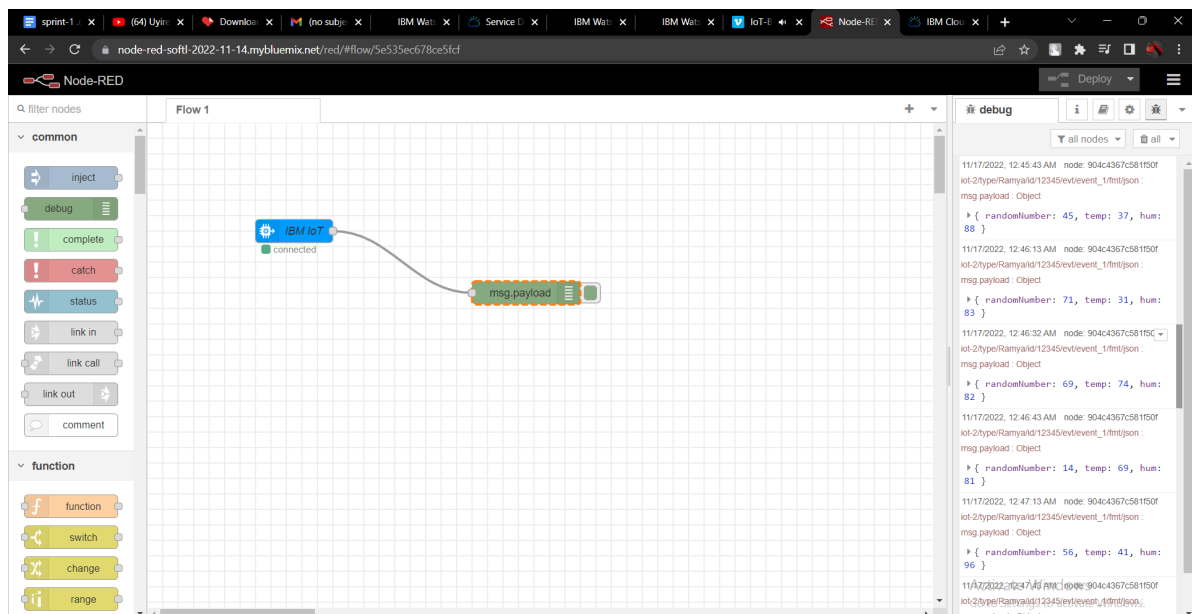
## PROJECT DEVELOPMENT – DELIVERY PLAN SPRINT-2

Date	3-Nov-2022
Team ID	PNT2022TMID33886
Project Name	Project - IoT based Safety Gadget for Child Safety Monitoring Notification

### Creating Node-Red service and connecting with IBM cloud

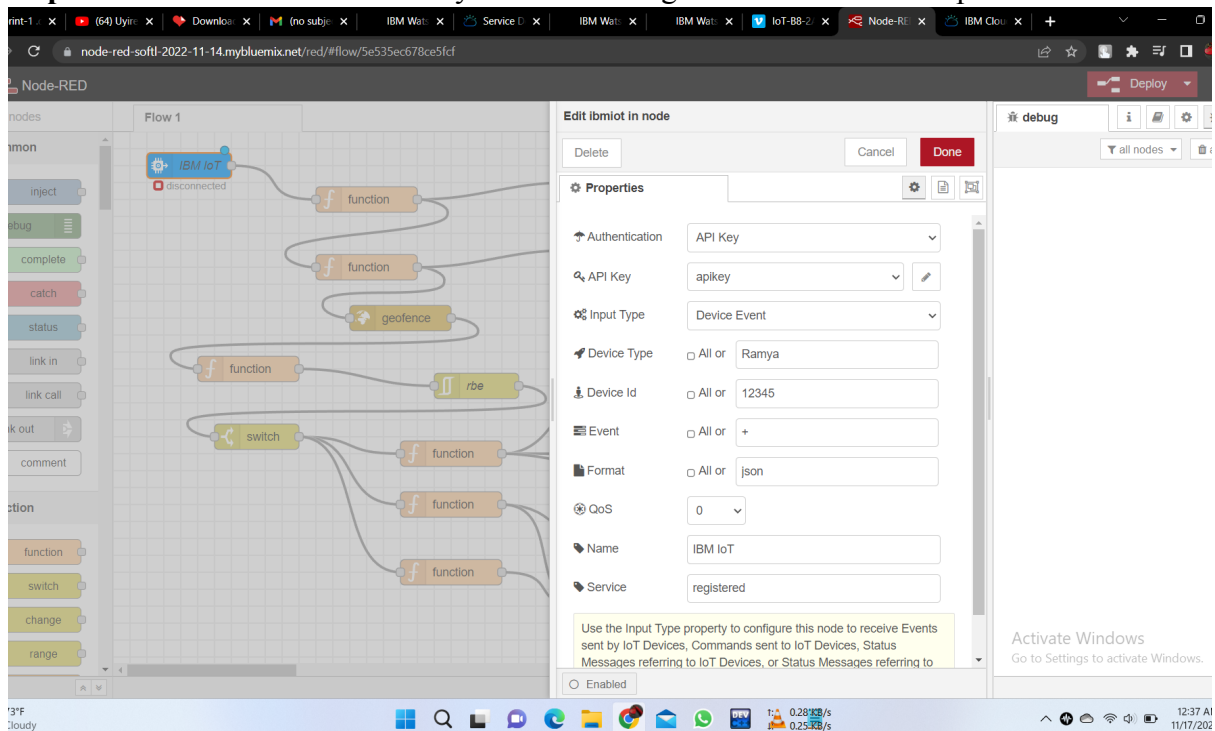
#### Creating Node-Red service:

**Step1:**Get started to node red with dragging components and deploy each of it .



#### Codes in each Node:

**Step2:**Add each function to node by double clicking on it and edit mode opens.



Node-RED: node-red-softl-2022-11-14.mybluemix.net/red/#flow/5e535ec678ce51cf

Node-RED

Flow 1

common

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

function

- function
- switch
- change
- range

IBM IoT

function

function

worldmap

geofence

rbe

http request

msg.payload

switch

Show dialog

Child

msg.payload

debug

11/17/2022, 12:45:43 AM node: 904c4367c581f50f  
iot-2/type/Ramya/id/12345/ev/tevent\_1/f/mj/son :  
msg.payload : Object  
> { randomNumber: 45, temp: 37, hum: 88 }

11/17/2022, 12:46:13 AM node: 904c4367c581f50f  
iot-2/type/Ramya/id/12345/ev/tevent\_1/f/mj/son :  
msg.payload : Object  
> { randomNumber: 71, temp: 31, hum: 83 }

11/17/2022, 12:46:32 AM node: 904c4367c581f50f  
iot-2/type/Ramya/id/12345/ev/tevent\_1/f/mj/son :  
msg.payload : Object  
> { randomNumber: 69, temp: 74, hum: 82 }

11/17/2022, 12:46:43 AM node: 904c4367c581f50f  
iot-2/type/Ramya/id/12345/ev/tevent\_1/f/mj/son :  
msg.payload : Object  
> { randomNumber: 14, temp: 69, hum: 81 }

11/17/2022, 12:47:13 AM node: 904c4367c581f50f  
iot-2/type/Ramya/id/12345/ev/tevent\_1/f/mj/son :  
msg.payload : Object  
> { randomNumber: 56, temp: 41, hum: 96 }

11/17/2022, 12:47:43 AM node: 904c4367c581f50f  
iot-2/type/Ramya/id/12345/ev/tevent\_1/f/mj/son :  
msg.payload : Object  
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Node-RED

Flow 1

common

- inject
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IBM IoT

function

switch

Edit function node

Delete

Cancel

Done

Properties

Name

Setup

On Start

On Message

On Stop

```
1 var name = msg.payload.name
2 var lat = msg.payload.lat
3 var lon = msg.payload.lon
4 global.set("latitude",lat)
5 global.set("longitude",lon)
6 global.set("name",name)
7 return msg;
```

Enabled

debug

11/17/2022, 12:45:43 AM node: 904c4367c581f50f  
iot-2/type/Ramya/id/12345/ev/tevent\_1/f/mj/son :  
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SprintII - Google Docs | sprint 2 .docx - Google Docs | Node-RED : node-red-softl-202: |

node-red-softl-2022-11-14.mybluemix.net/red/#flow/5e535ec678ce5fcf

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

Flow 1

IBM IoT  
connected

function

function

worldmap

geofence

function

req

http request

msg

show dialog

function

function

function

msg payload

msg payload

Edit debug node

Delete Cancel Done

Properties

Output

msg.payload

To

☒ debug window

☐ system console

☐ node status (32 characters)

Name

Name

config

all unused

On all flows

apikey 1

ui\_base

Node-RED Dashboard

Flow 1

Activate Windows

SprintII - Google Docs | sprint 2 .docx - Google Docs | Node-RED : node-red-softl-202: |

node-red-softl-2022-11-14.mybluemix.net/red/#flow/5e535ec678ce5fcf

Node-RED

Filter nodes

common

- inject
- debug
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- catch
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- comment

function

- function
- switch
- change
- range
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- delay
- trigger
- filter

Flow 1

IBM IoT  
connected

function

function

worldmap

geofence

function

req

http request

msg

show dialog

function

function

function

msg payload

msg payload

Edit function node

Delete Cancel Done

Properties

Name

Name

Setup On Start On Message On Stop

```
1- msg.payload = {
2  "name": global.get('name'),
3  "lat": global.get('latitude'),
4  "lon": global.get('longitude'),
5- }
6 return msg;
```

config

all unused

On all flows

apikey 1

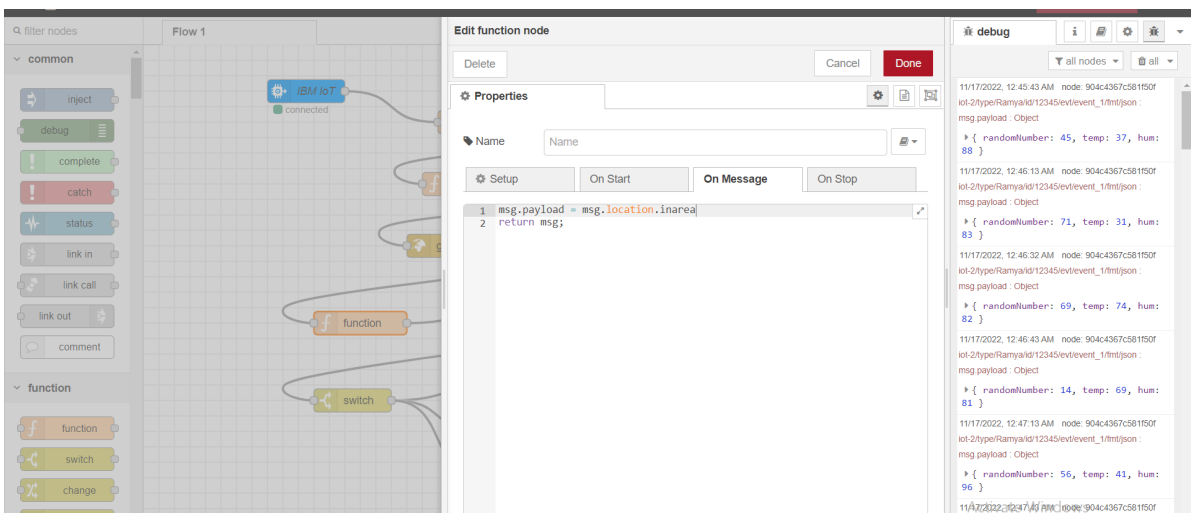
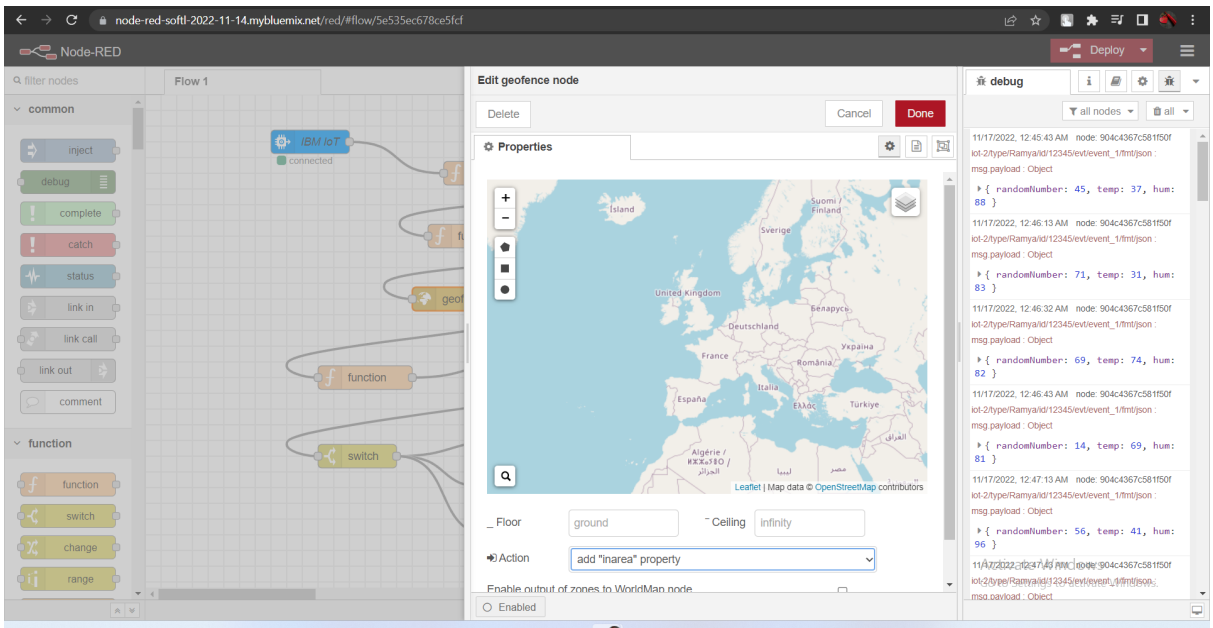
ui\_base

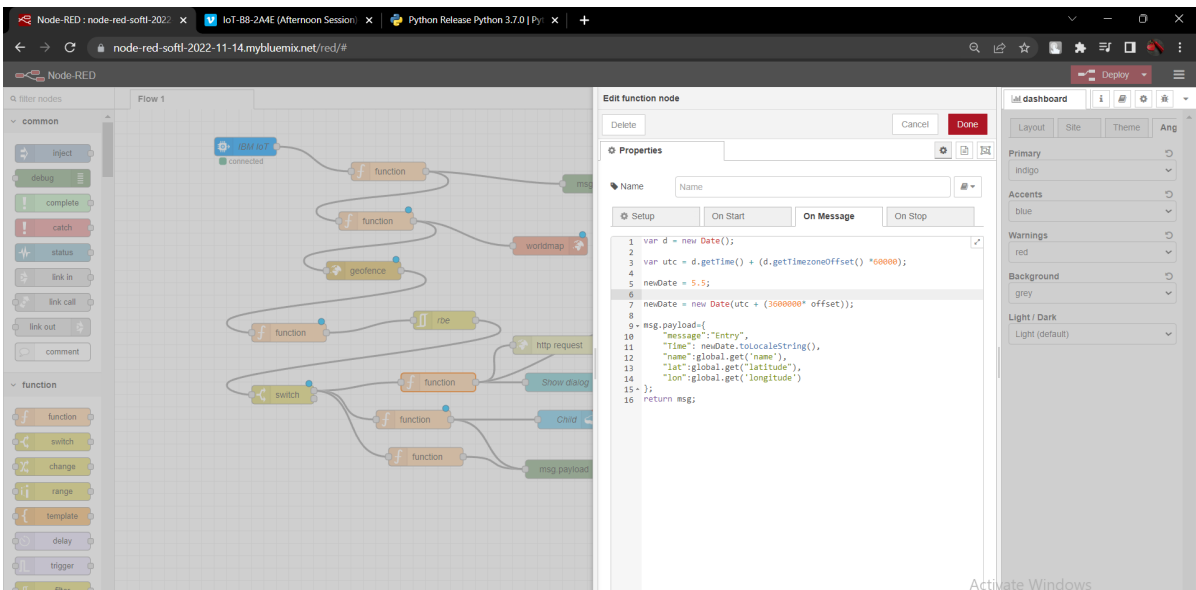
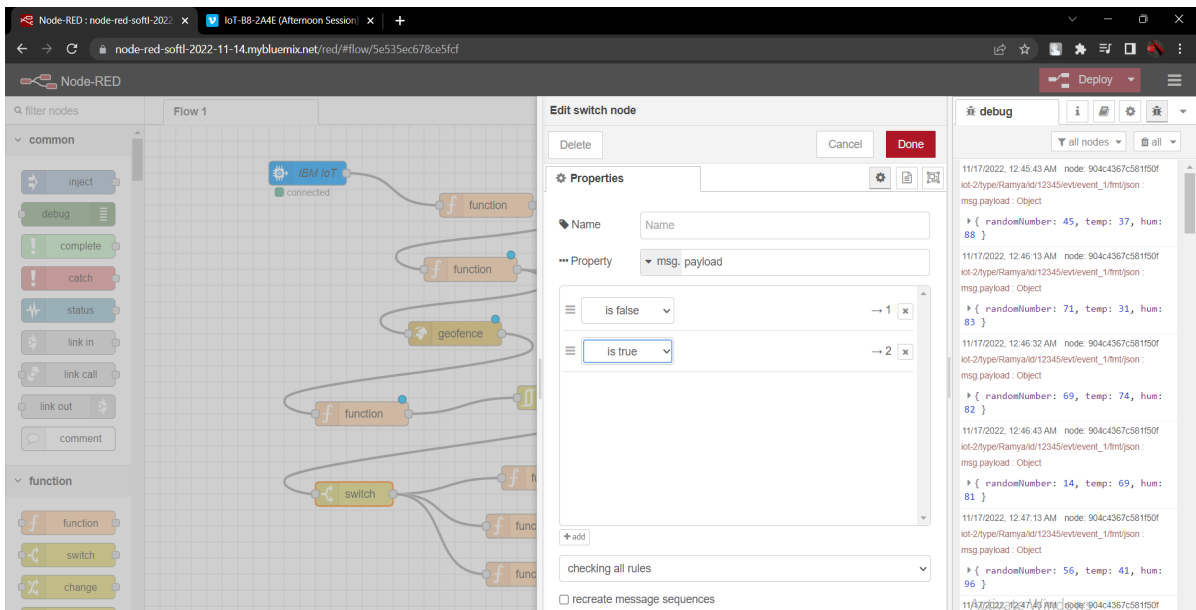
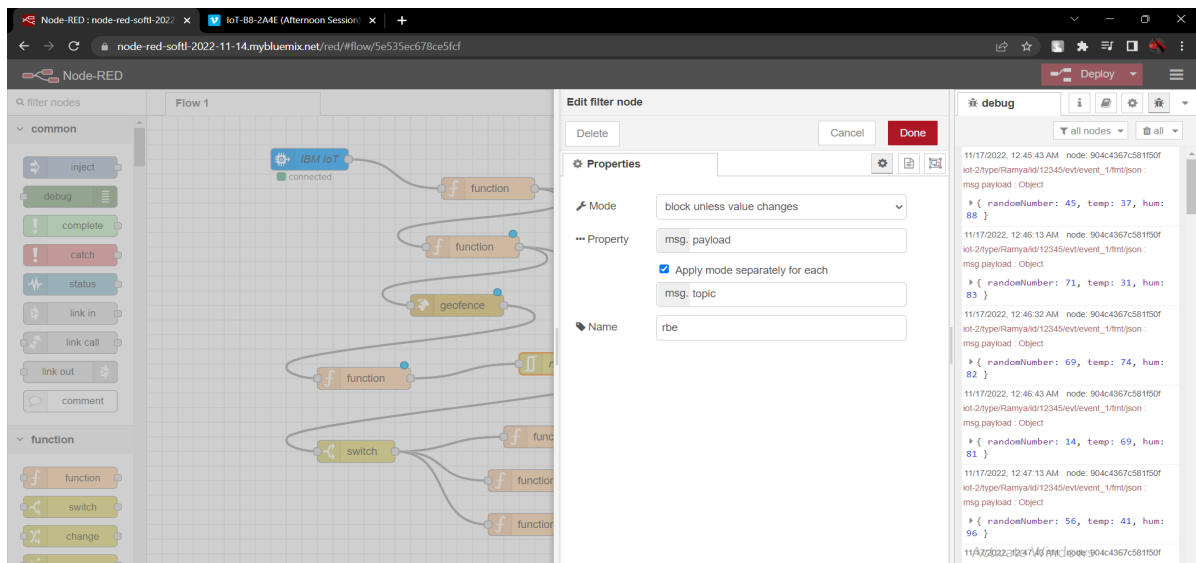
Node-RED Dashboard

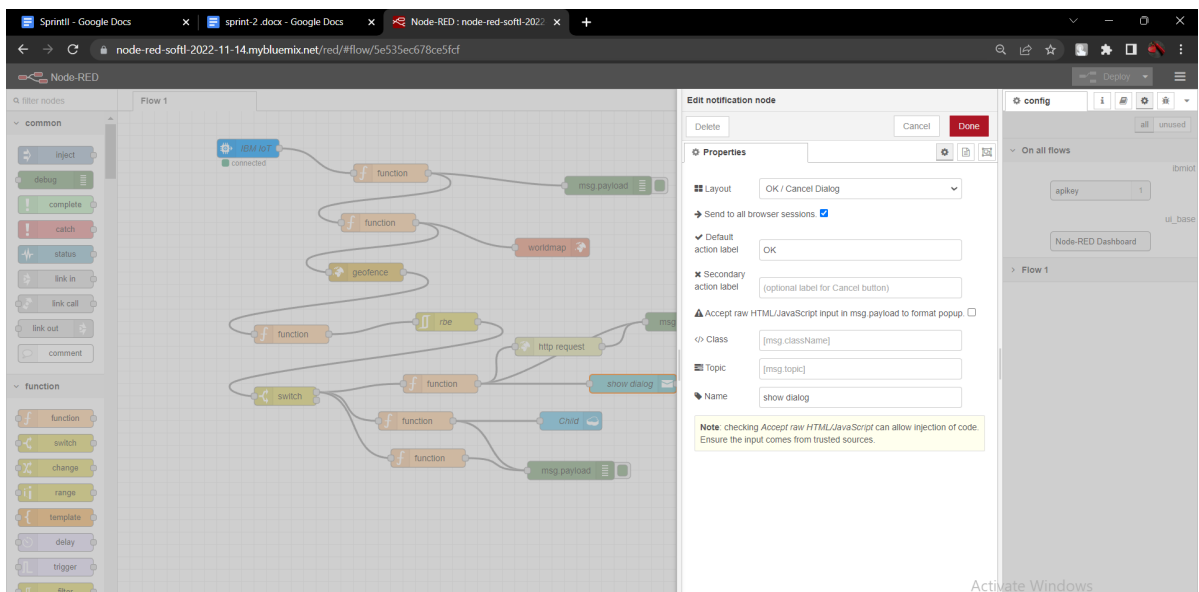
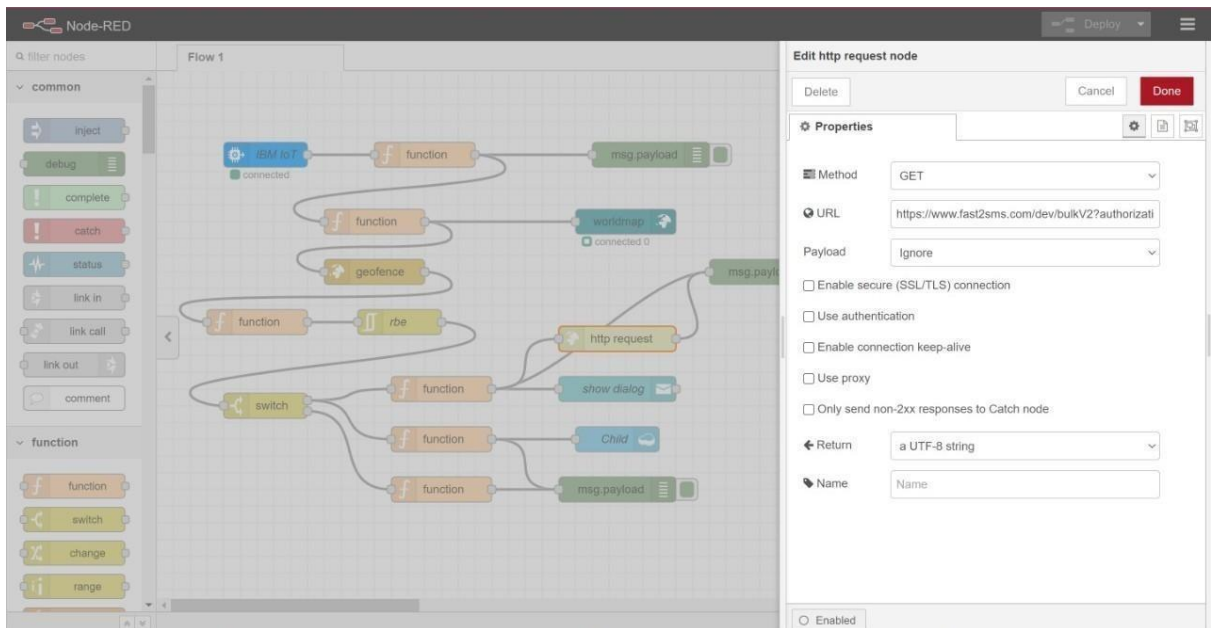
Flow 1

Activate Windows

Go to settings to activate Windows.





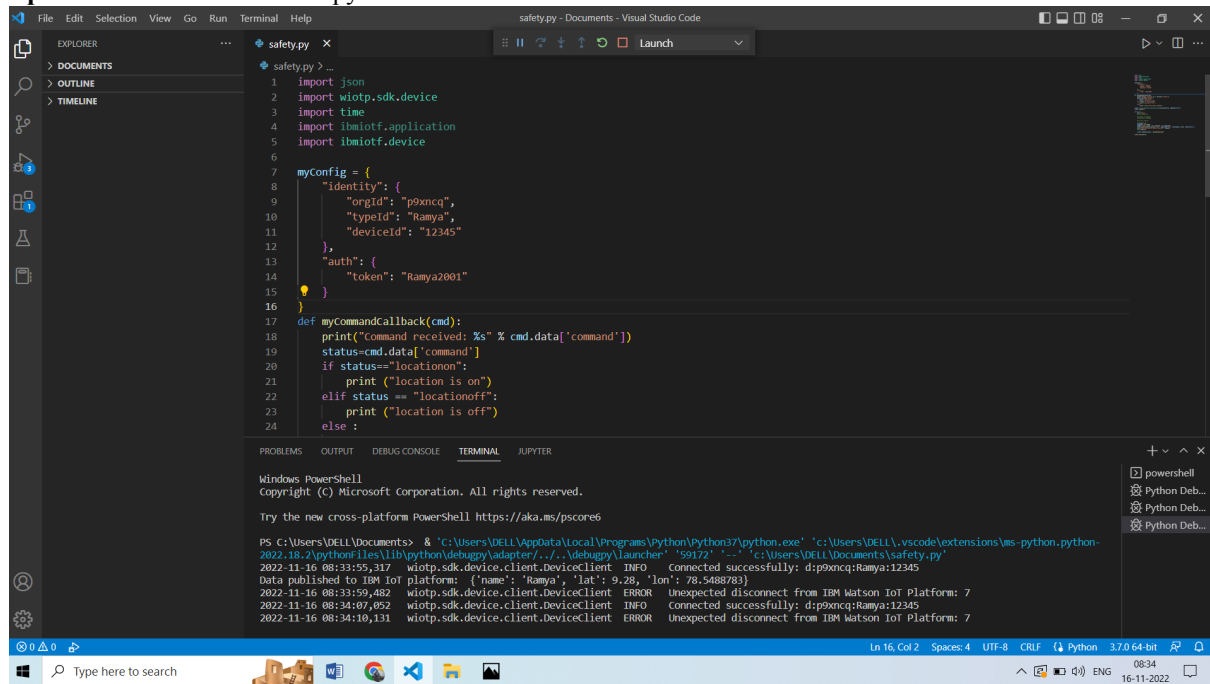






# Transferring values from Python Code:

Step3:Transfer the values from python code.



## Node-Red:

