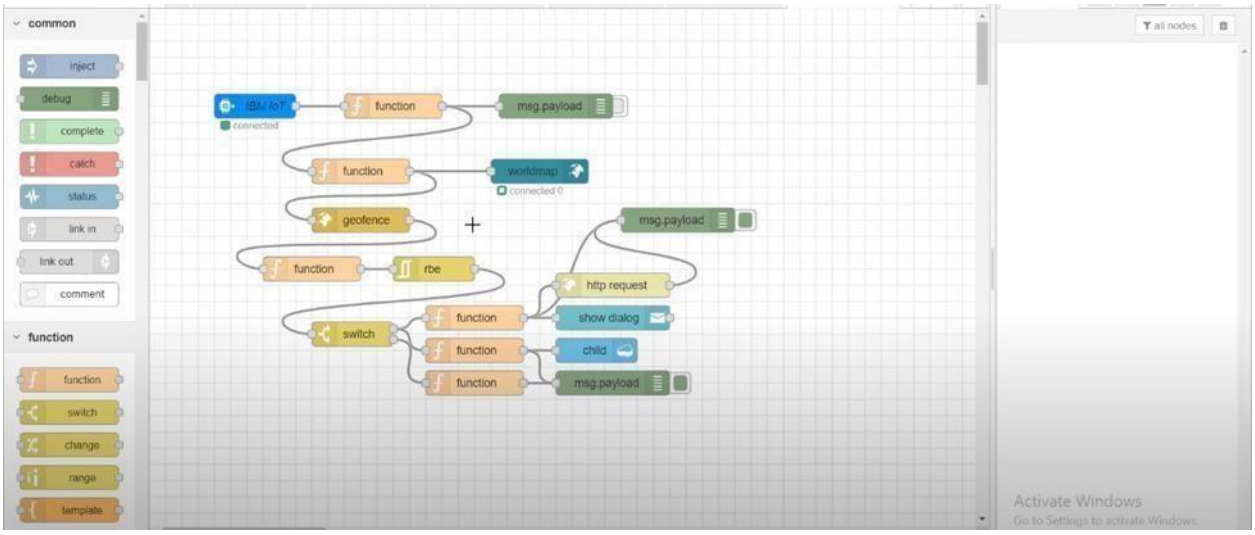
DATE	17 November 22
Team ID	PNT2022TMID47939
Project Name	**Smart Waste Management System For Metropolitan Citie**

PREREQUISITES

NODE RED SERVICE

Step 1: Connect the blocks.

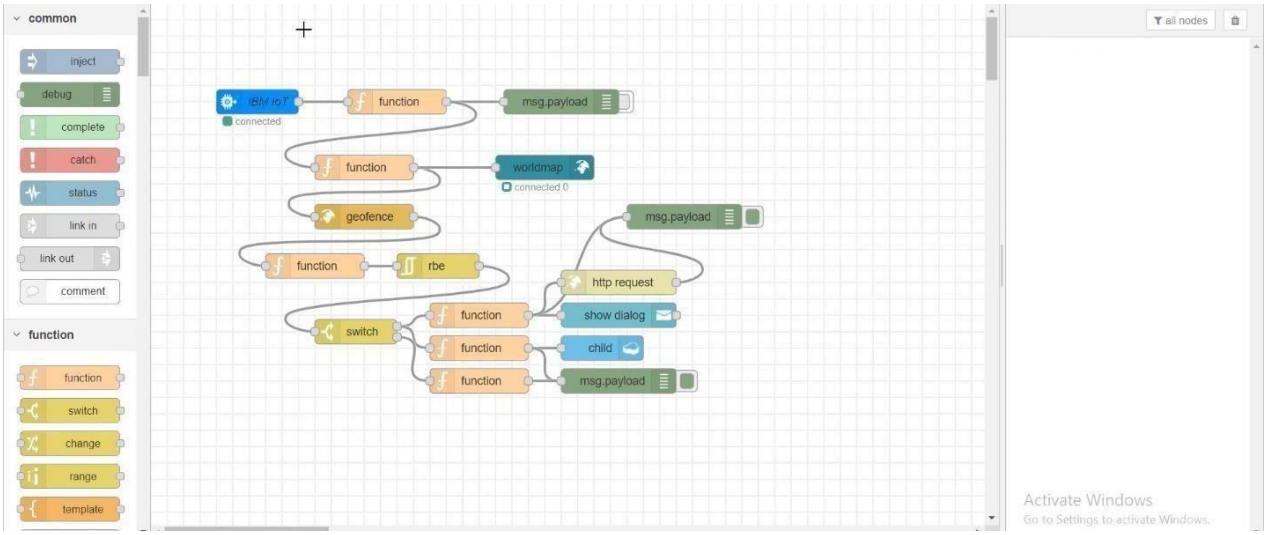



```
import json
import wiotp.sdk.device
import time

myConfig = {
    "identity": {
        "orgId": "hj5fmy",
        "typeId": "NodeMCU",
        "deviceId": "12345"
    },
    "auth": {
        "token": "12345678"
    }
}
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
        name= "Smartbridge"
        #in area location

        latitude= 17.4225176
        longitude= 78.5458842

        #out area location

        #latitude= 17.4219272
        #longitude= 78.5488793
        myData={'name': name, 'lat':latitude,'lon':longitude}
        client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
        print("Data published to IBM IoT platfrom: ",myData)
        time.sleep(5)

client.disconnect()
```

Activate Windows
Go to Settings to activate Windows.

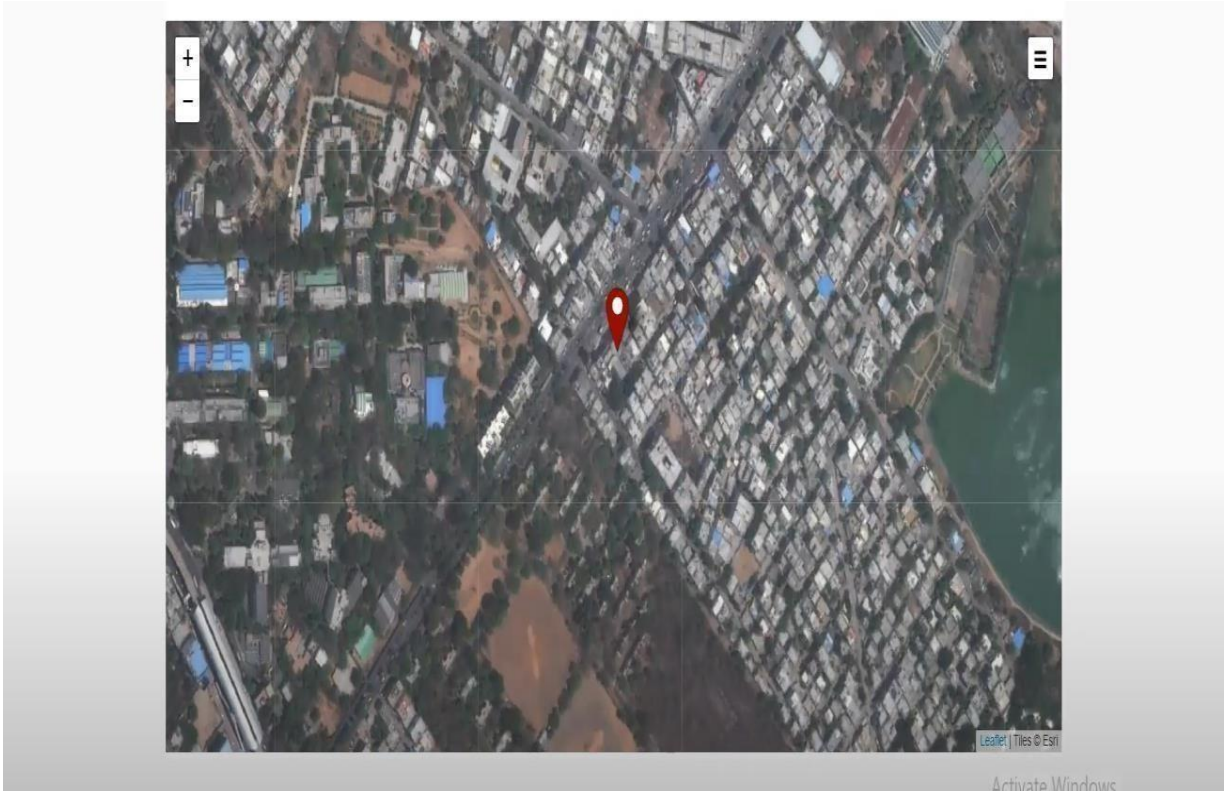
Step 2: Create python code.

Step 3: Click the geo-fence node.

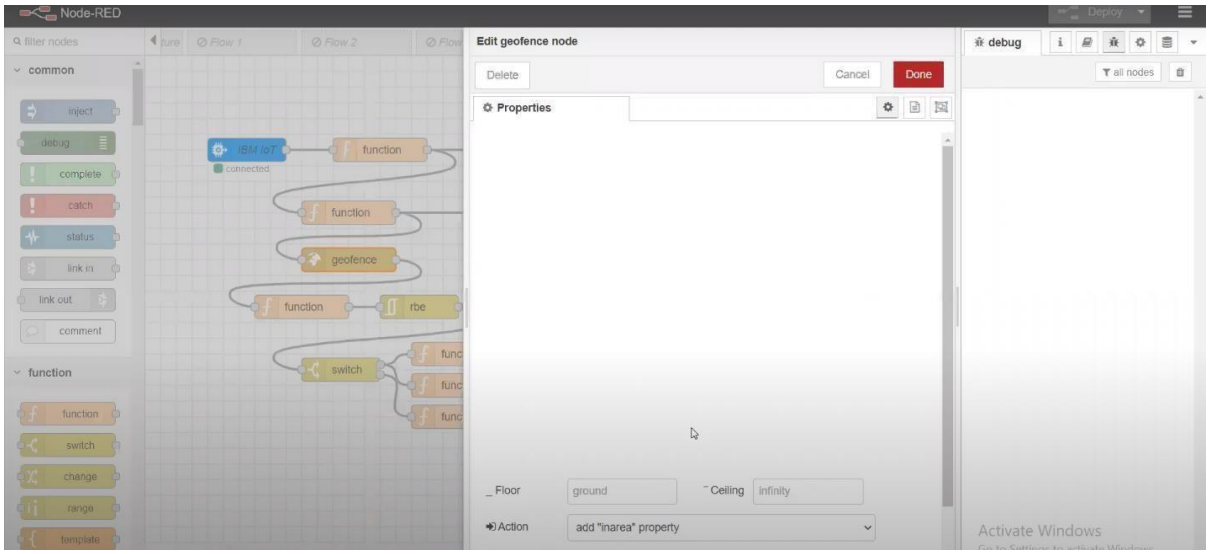


Step 4: Create the geo-fence area in the map.

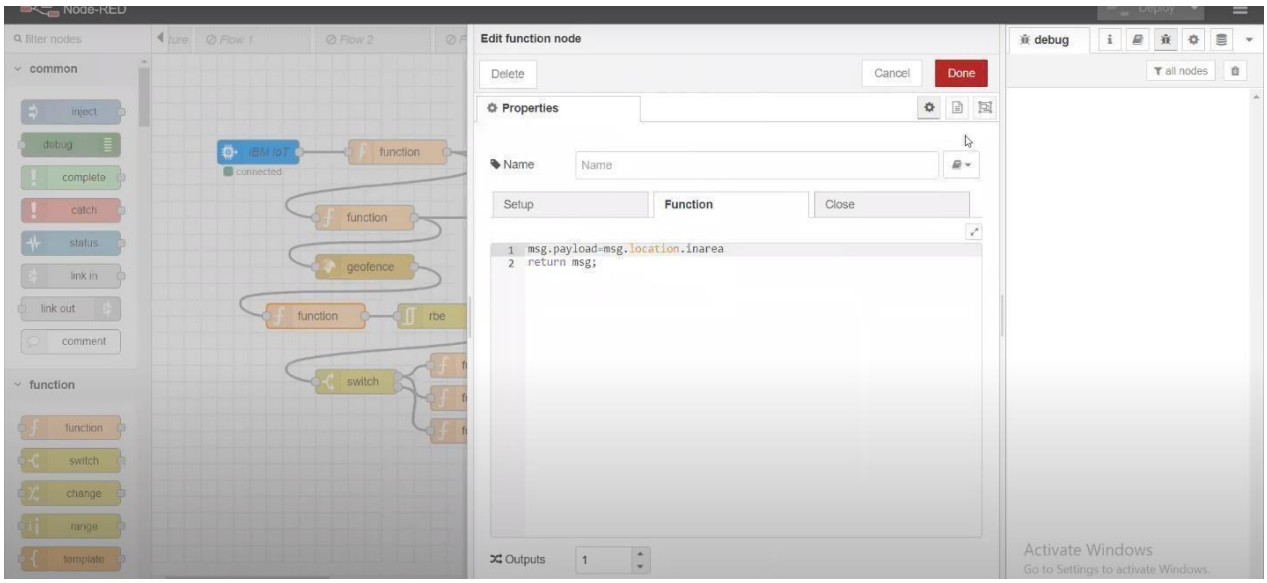
Step



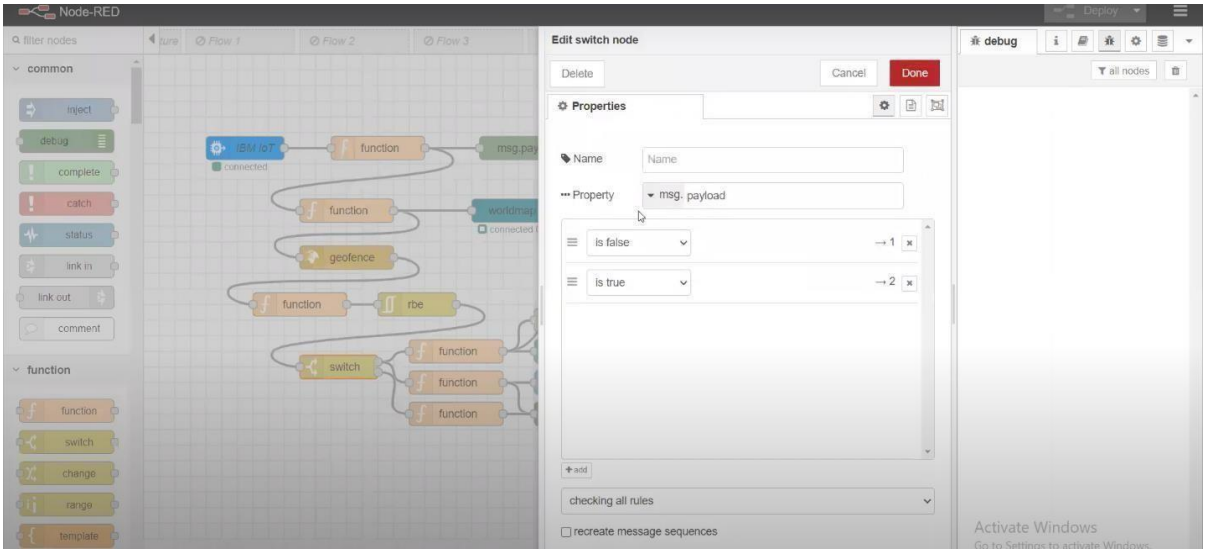
Step 5: Select the function block.



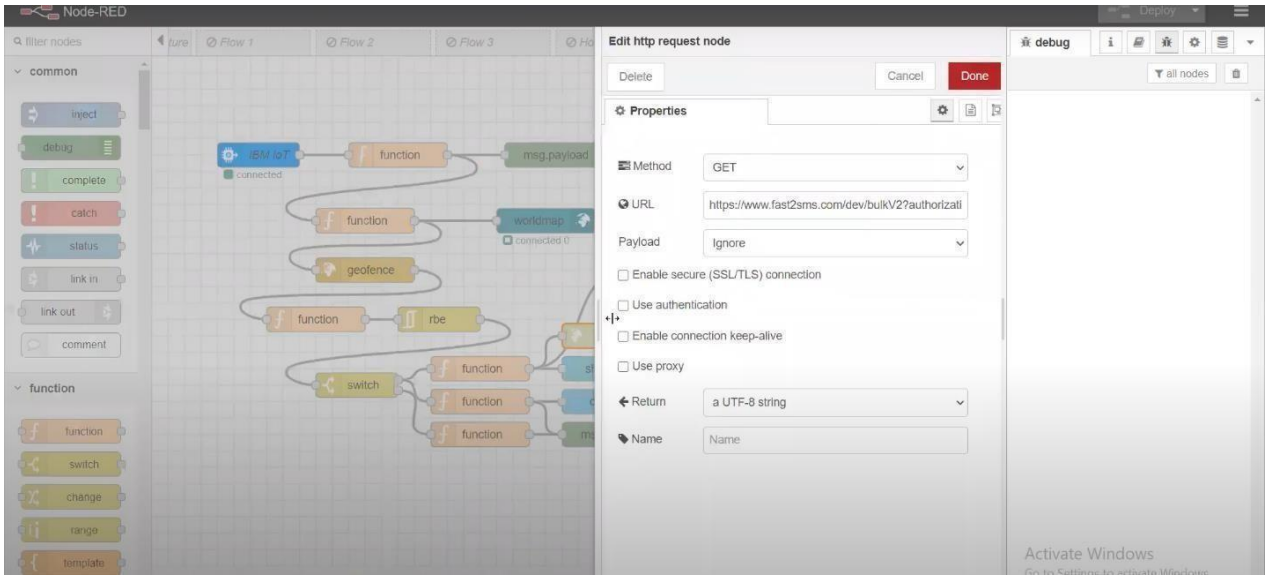
Step 6: Select the message payload.



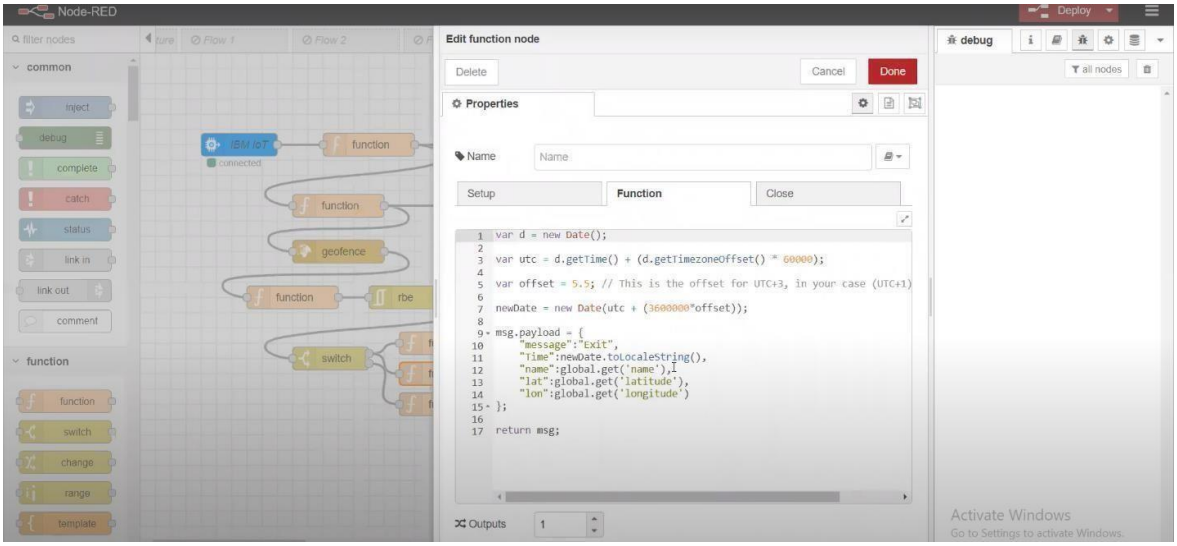
Step 7: To identify the person in area.



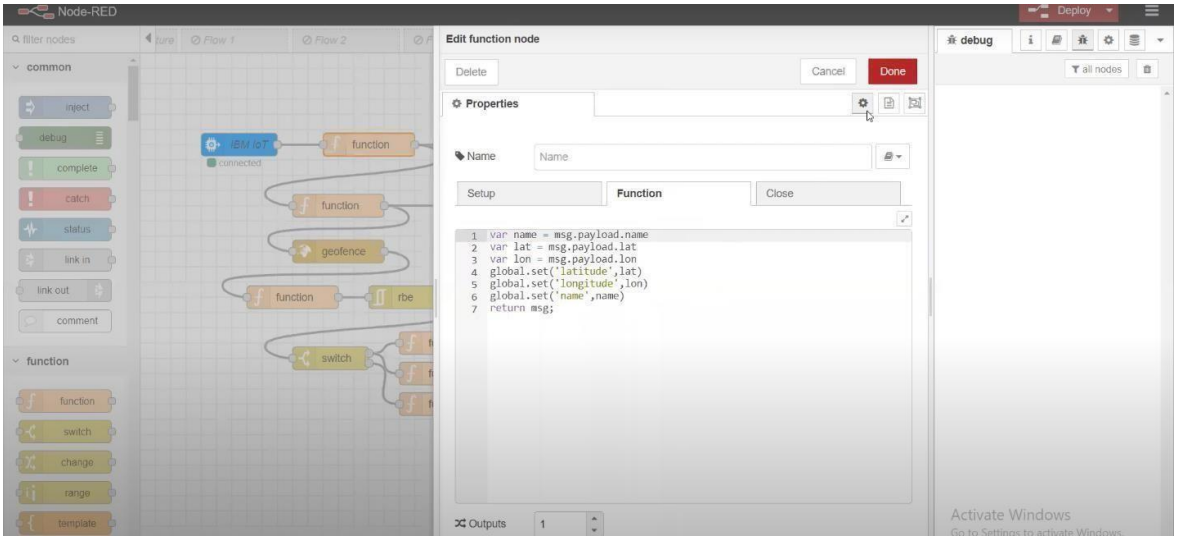
STEP 8: Select the http request to send message to parent or guardian.

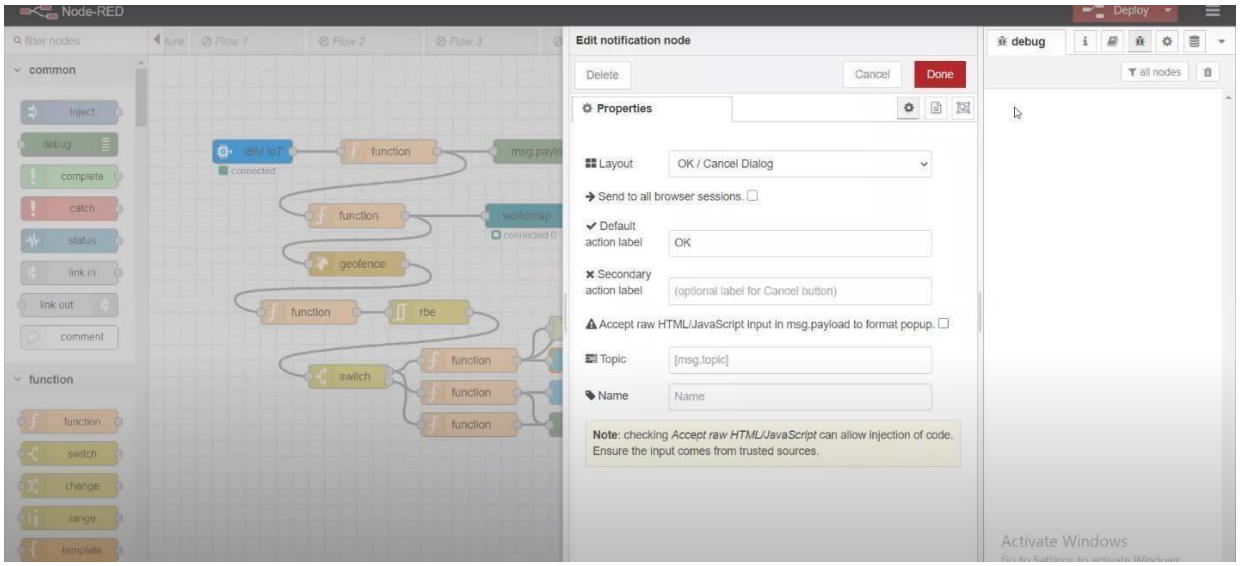


Step 9: For sending the message with time.


Node-RED
Deploy
filter nodes
common
inject
debug
complete
catch
status
link in
link out
comment
function
function
switch
change
range
template
IBM IoT
connected
function
function
geofence
function
rbe
switch
Edit function node
Delete
Cancel
Done
Properties
Name
Name
Setup
Function
Close
1 var d = new Date();
2
3 var utc = d.getTime() + (d.getTimezoneOffset() * 60000);
4
5 var offset = 5.5; // This is the offset for UTC+3, in your case (UTC+1)
6
7 newDate = new Date(utc + (3600000*offset));
8
9 msg.payload = {
10 "message":"Exit",
11 "Time":newDate.toLocaleString(),
12 "name":global.get('name'),
13 "lat":global.get('latitude'),
14 "lon":global.get('longitude')
15 };
16
17 return msg;
Outputs
1
debug
all nodes
Activate Windows
Go to Settings to activate Windows.

STEP 10: Click show dialog for notifying the popup alert.




Node-RED
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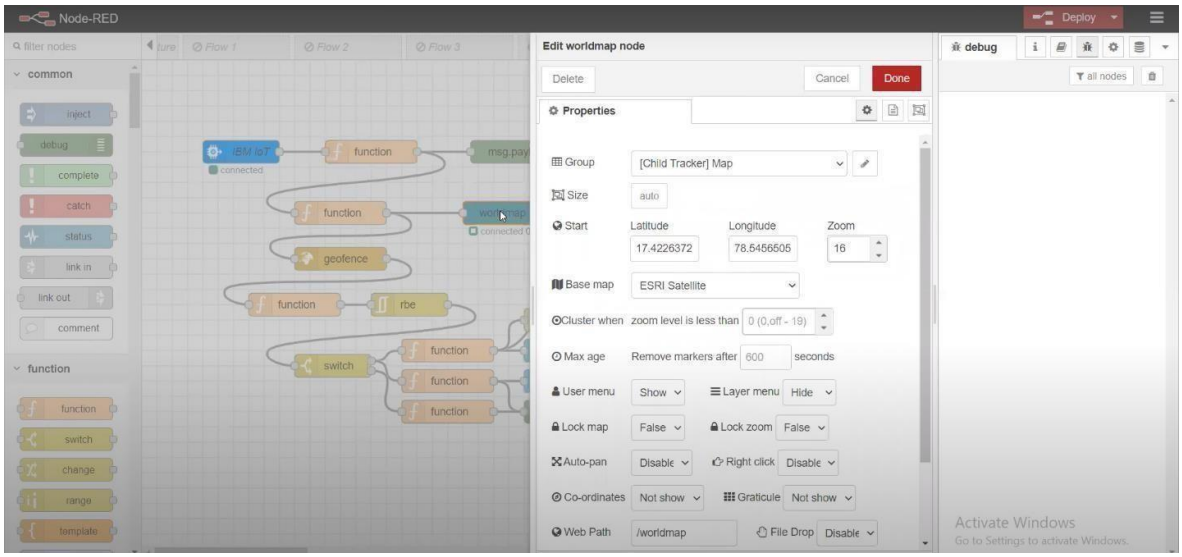
comment
function
function
switch
change
range
template
IBM IoT
connected
function
worldmap
connected 0
geofence
function
rbe
function
switch
function
function
Edit notification node
Delete
Cancel
Done
Properties
Layout
OK / Cancel Dialog
Send to all browser sessions.
Default action label
OK
Secondary action label
(optional label for Cancel button)
Accept raw HTML/JavaScript input in msg.payload to format popup.
Topic
[msg.topic]
Name
Name
Note: checking Accept raw HTML/JavaScript can allow injection of code. Ensure the input comes from trusted sources.
debug
all nodes
Activate Windows

STEP 11: Click the world map to see the location.