

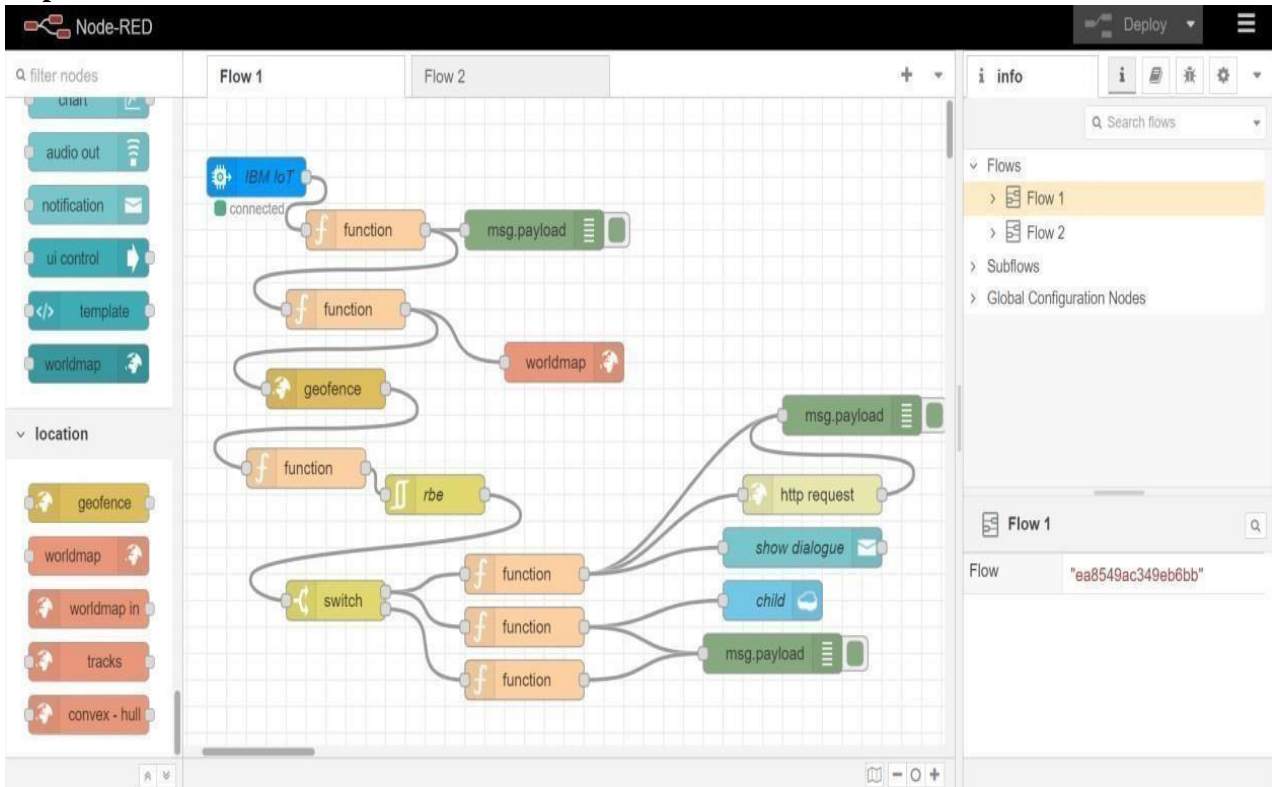
Project Development Phase

SPRINT-3

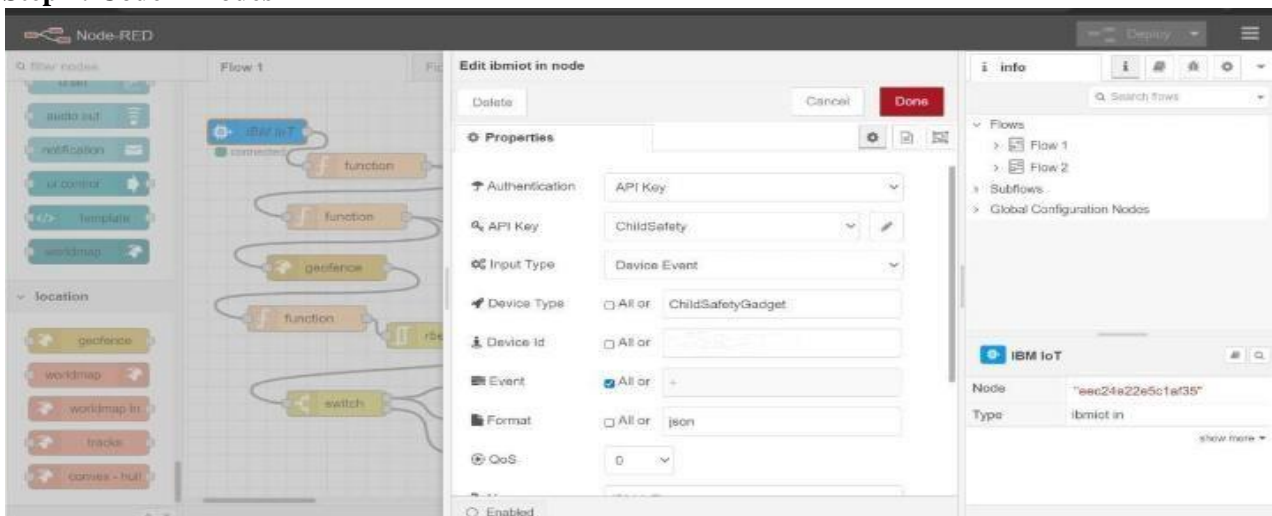
Date	15 November 2022
Team ID	PNT2022TMID53923
Project Name	Project - IOT Based Safety Gadget for Child Safety Monitoring & Notification

NODE RED-Cloudant DB Communication:

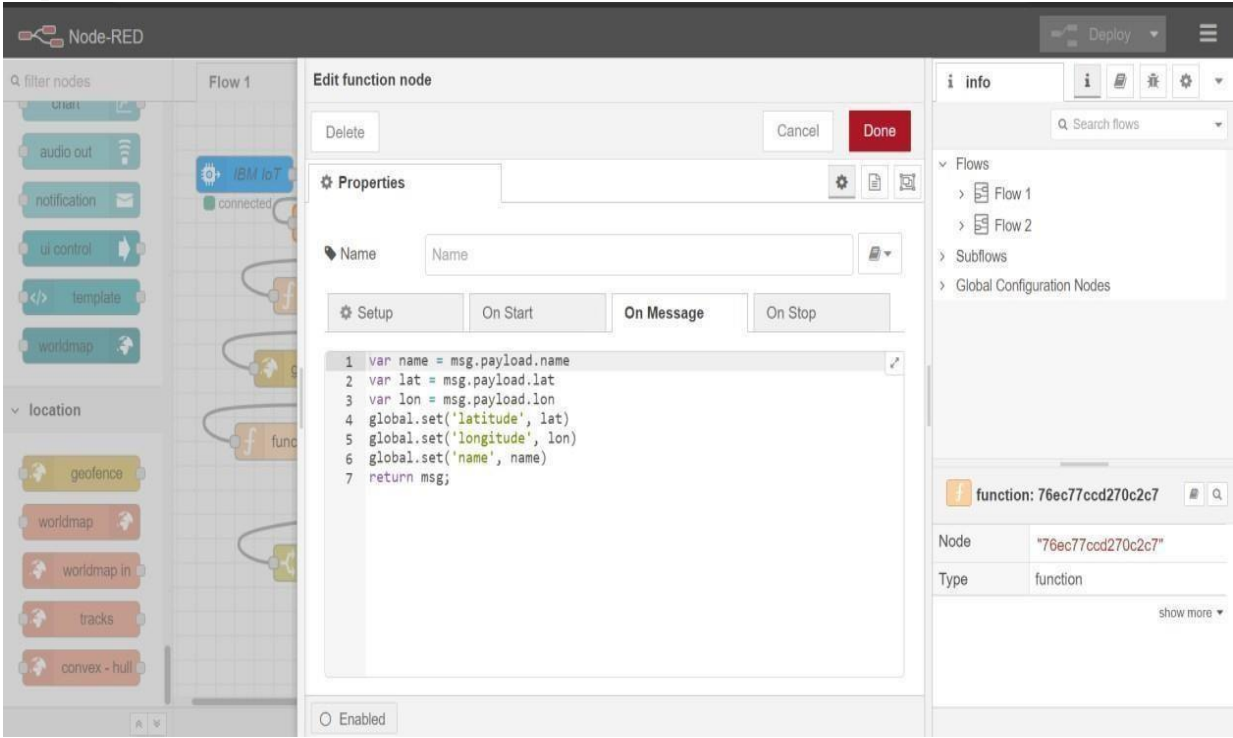
Step 1: Connections



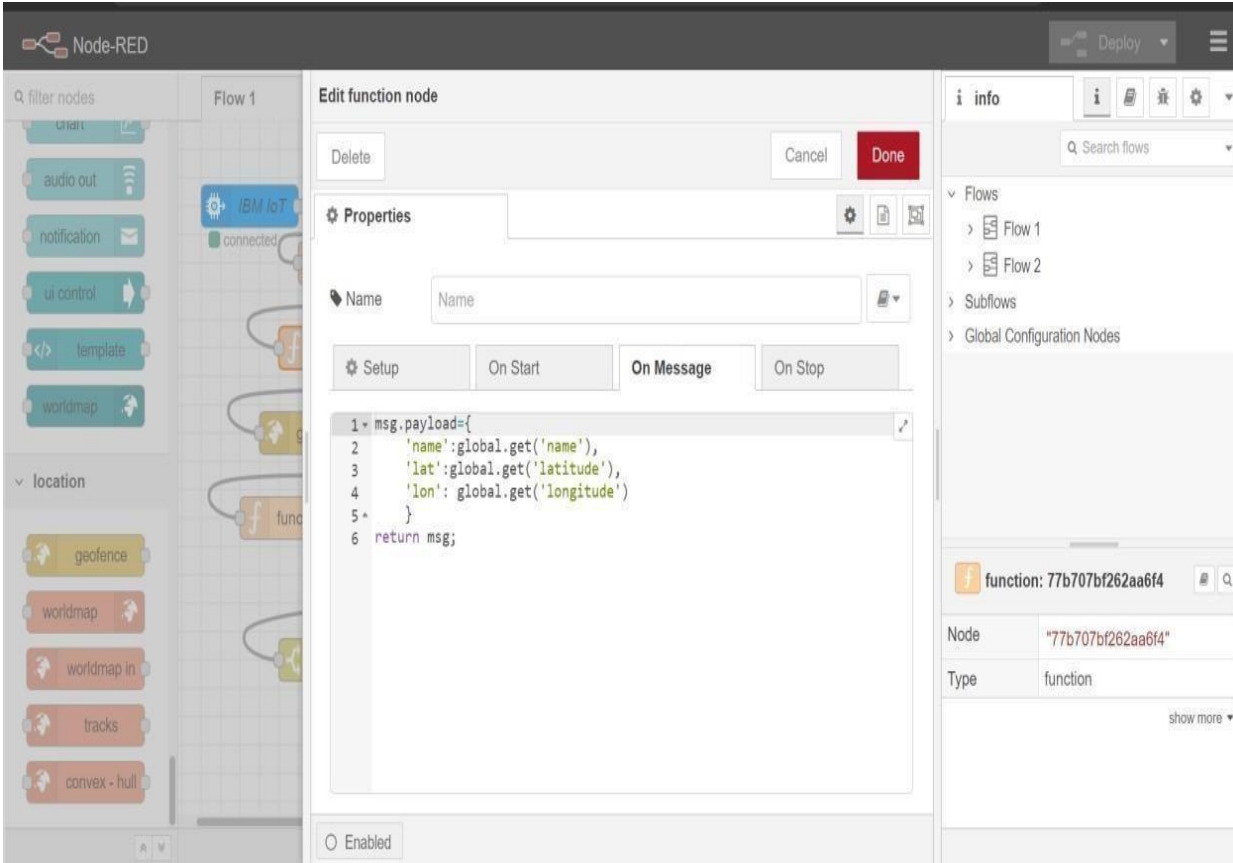
Step 2: Code in nodes



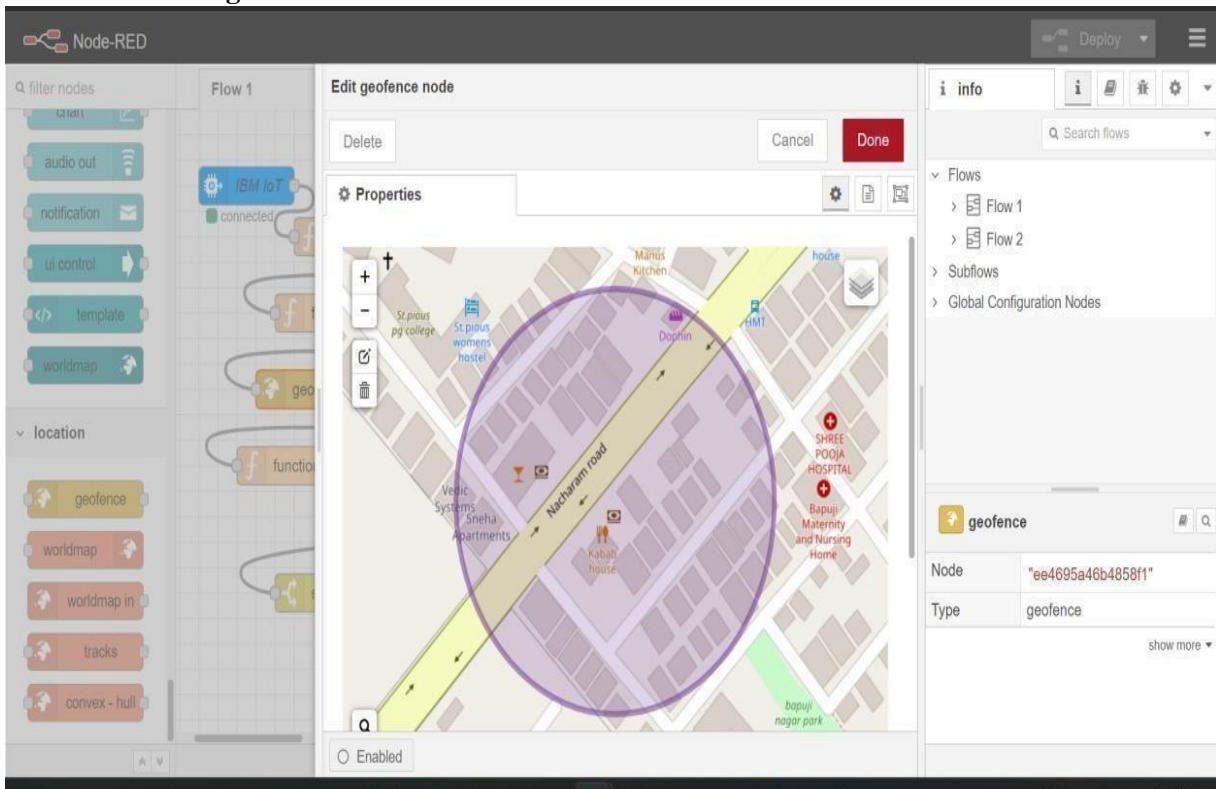
Step 3:Edit function mode(code)



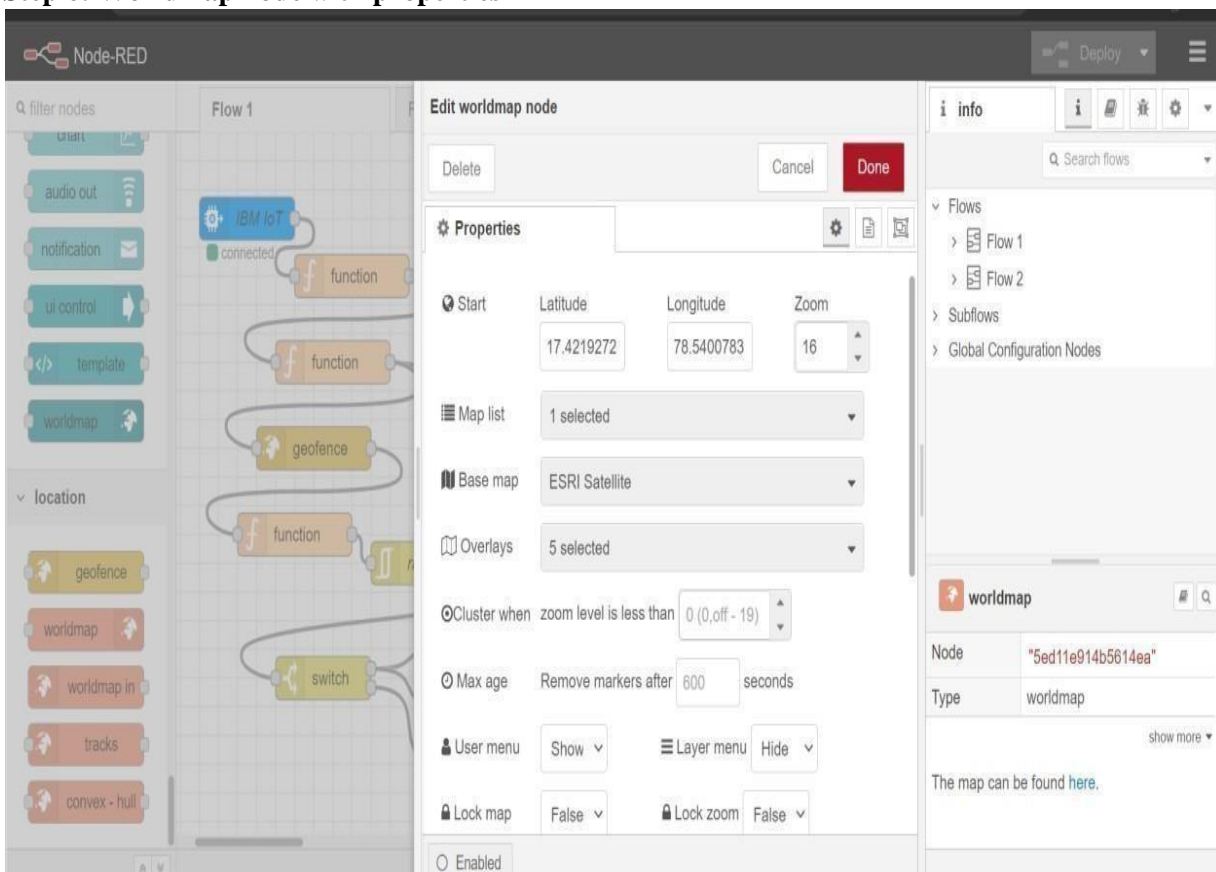
Step 4:



5: Geofencing mode

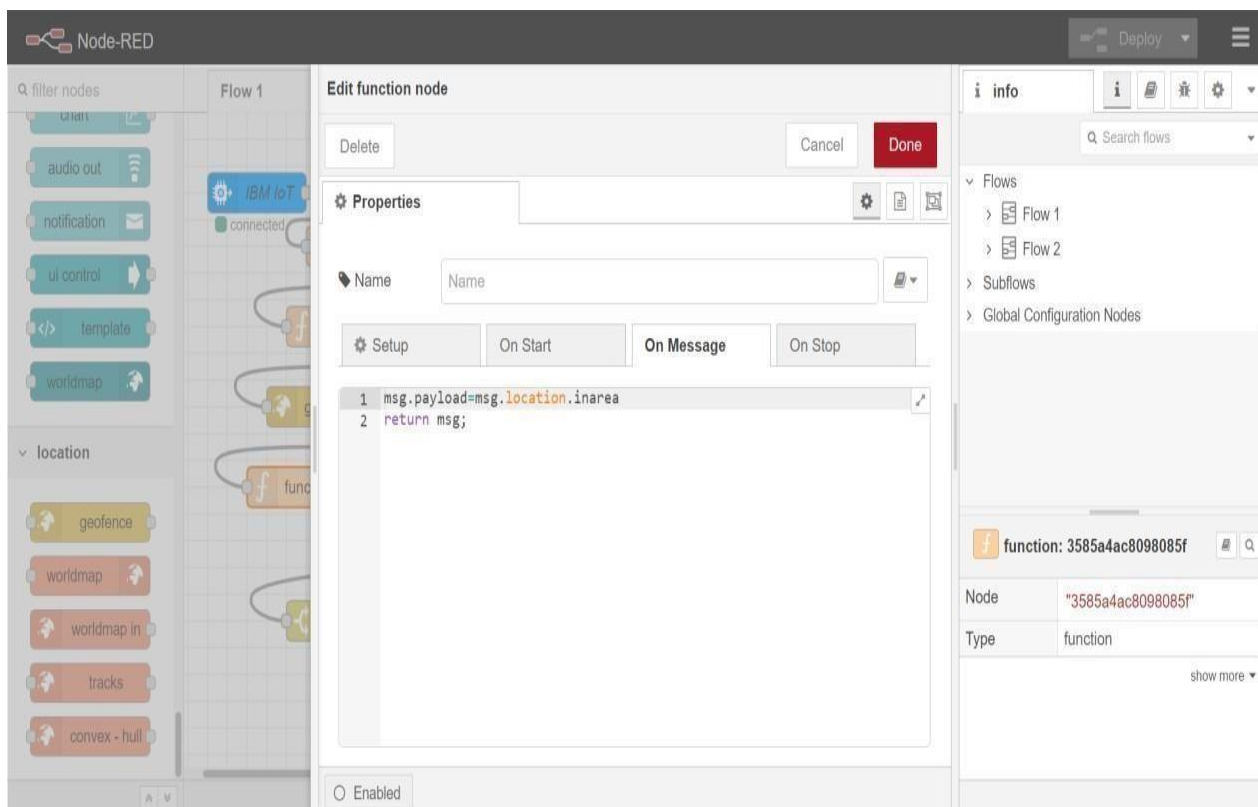


Step 6: Worldmap node with properties

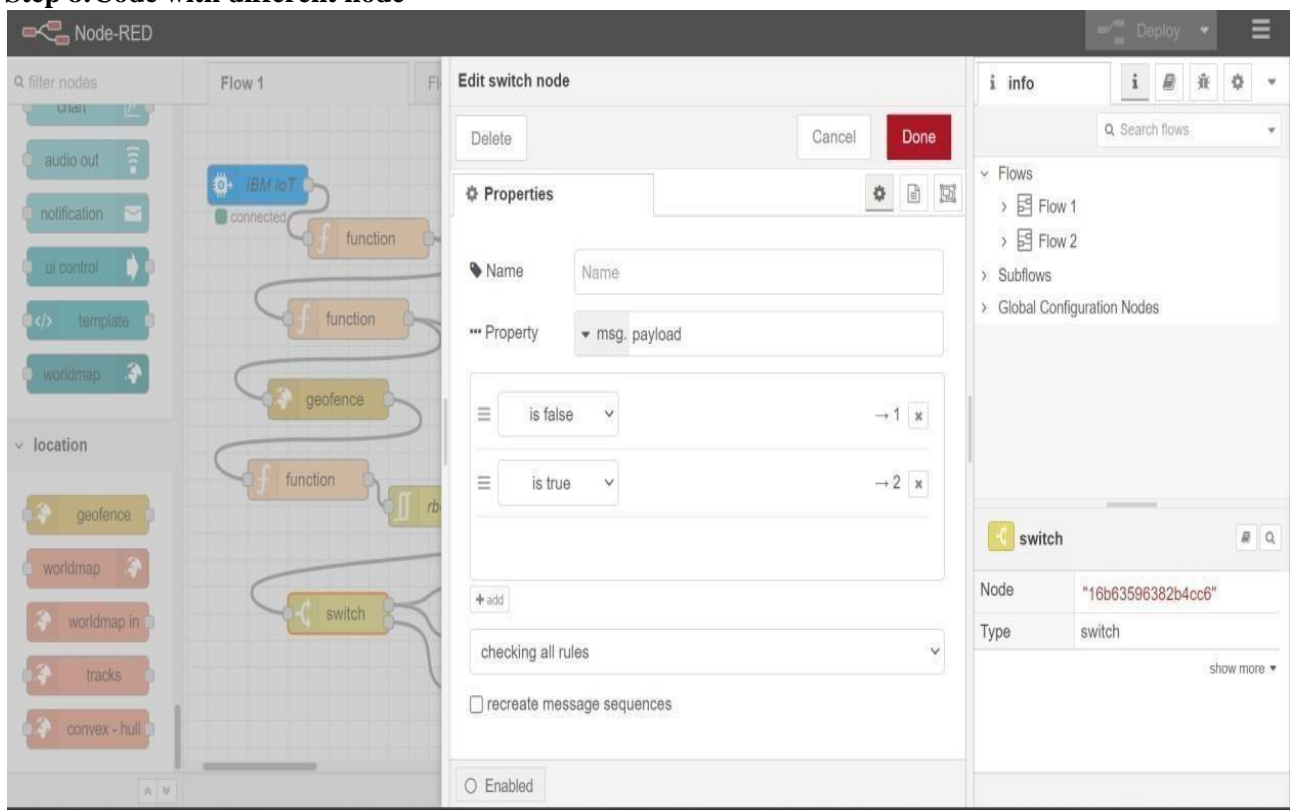


7: Apply the code with different node

Step

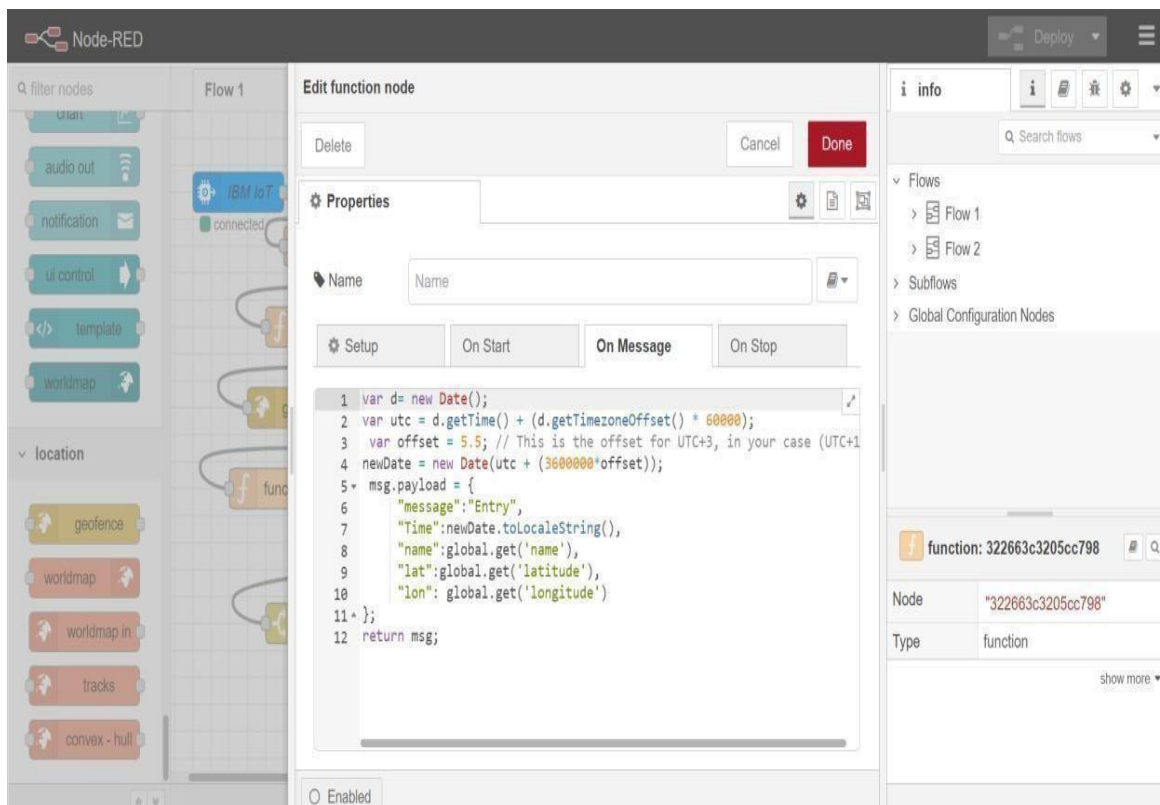


Step 8:Code with different node

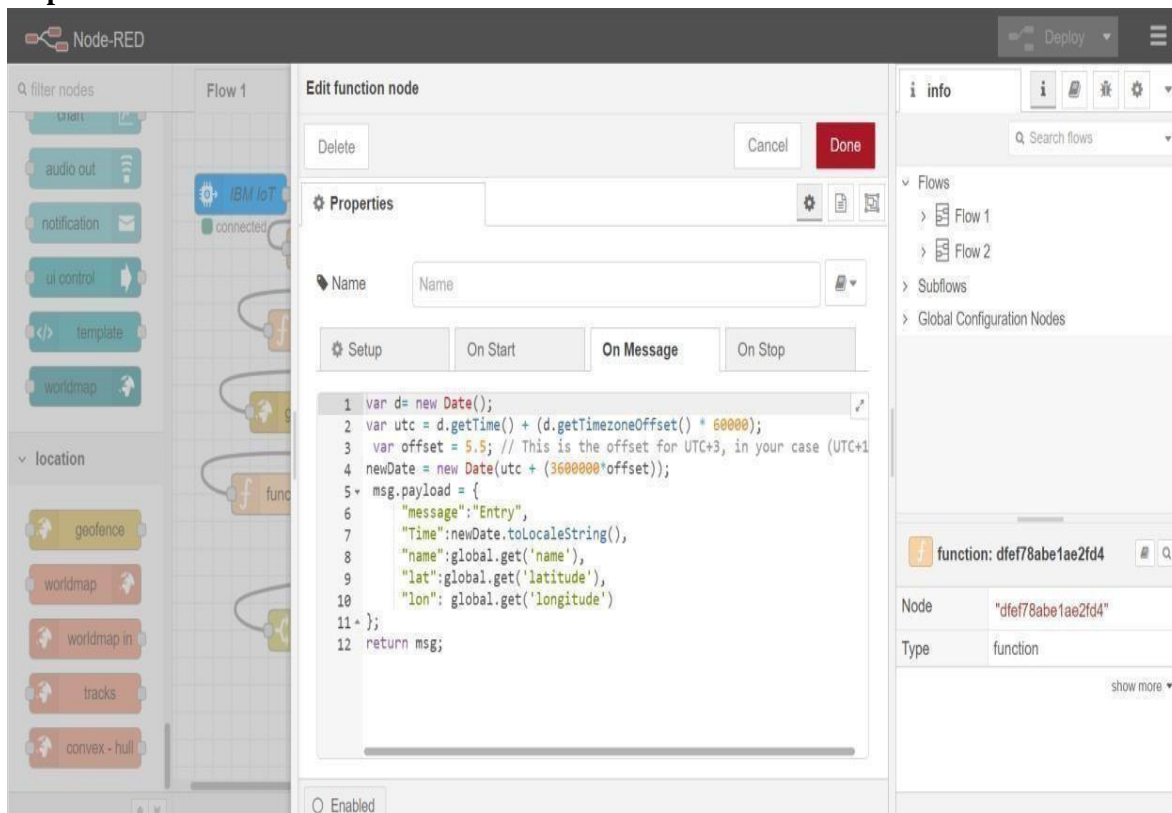


9:Code with different node

Step



Step 10: code with different node



Step 11: Code with different node

Node-RED interface showing the 'Edit function node' dialog. The code in the function node is:

```
1 var d = new Date();
2 var utc = d.getTime() + (d.getTimezoneOffset() * 60000);
3 var offset = 5.5; // This is the offset for UTC+3, in your case (UTC+1
4 newDate = new Date(utc + (3600000*offset));
5 msg.payload = {
6   'message': 'Entry',
7   'Time': newDate.toLocaleString(),
8   'name': global.get('name'),
9   'lat': global.get('latitude'),
10  'lon': global.get('longitude')
11 };
12 return msg;
```

The right sidebar shows the 'info' panel with the node ID '36df960d0bd4f874' and type 'function'.

Step 12: Http request node->properties

Node-RED interface showing the 'Edit http request node' dialog. The properties are:

- Method: GET
- URL: <https://www.fast2sms.com/dev/wallet?authorizati>
- Payload: Ignore
- ☐ Enable secure (SSL/TLS) connection
- ☐ Use authentication
- ☐ Enable connection keep-alive
- ☐ Use proxy
- ☐ Only send non-2xx responses to Catch node
- Return: a UTF-8 string

The right sidebar shows the 'info' panel with the node ID 'a43ddb0b4716e38d' and type 'http request'.

Step 13: Notification node

The screenshot shows the Node-RED web interface. On the left, a palette of nodes is visible, including 'notification'. The main workspace shows a flow with several nodes: 'IBM IoT' (connected), two 'function' nodes, a 'geofence' node, another 'function' node, and a 'switch' node. The 'Edit notification node' panel is open on the right. It has tabs for 'Delete', 'Cancel', and 'Done'. The 'Properties' section includes a 'Layout' dropdown set to 'OK / Cancel Dialog', a 'Send to all browser sessions' checkbox, a 'Default action label' field with 'OK', and a 'Secondary action label' field with '(optional label for Cancel button)'. There is also a checkbox for 'Accept raw HTML/JavaScript input in msg.payload to format popup.' and fields for 'Class' (containing '[msg.className]'), 'Topic' (containing '[msg.topic]'), and 'Name' (containing 'show dialogue'). At the bottom, there is an 'Enabled' checkbox. The right sidebar shows the 'info' panel with a search bar and a list of flows. Below that, a 'show dialogue' node is highlighted, showing its ID '388bcb2648d1348b' and type 'ui_toast'.

Step 14: Cloudant node

The screenshot shows the Node-RED web interface. The main workspace shows the same flow as in Step 13. The 'Edit cloudant out node' panel is open on the right. It has tabs for 'Delete', 'Cancel', and 'Done'. The 'Properties' section includes a 'Service' dropdown set to 'Cloudant-pn-99850', a 'Database' field with 'noderedapqzh20221108', an 'Operation' dropdown set to 'insert', and a checkbox for 'Only store msg.payload object?'. The 'Name' field contains 'child'. At the bottom, there is an 'Enabled' checkbox. The right sidebar shows the 'info' panel with a search bar and a list of flows. Below that, a 'child' node is highlighted, showing its ID '7f199a311bbfac36' and type 'cloudant out'.