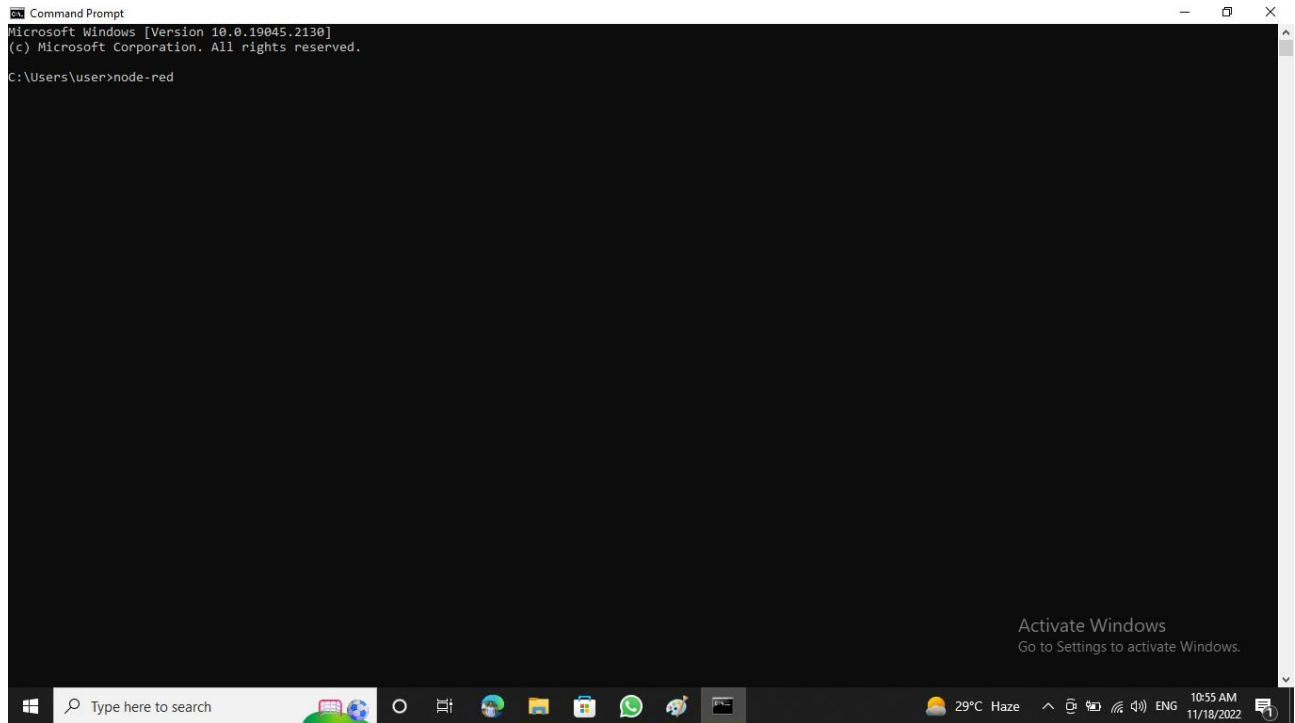


Project Development Phase

Delivery of Sprint 2

DATE	18 NOVEMBER 2022
TEAM ID	PNT2022TMID16936
PROJECT NAME	GAS LEAKAGE DETECTION AND ALERTING system for industries
MAXIMUM MARKS	20 MARKS

Step1: Install node red and open node red in command prompt

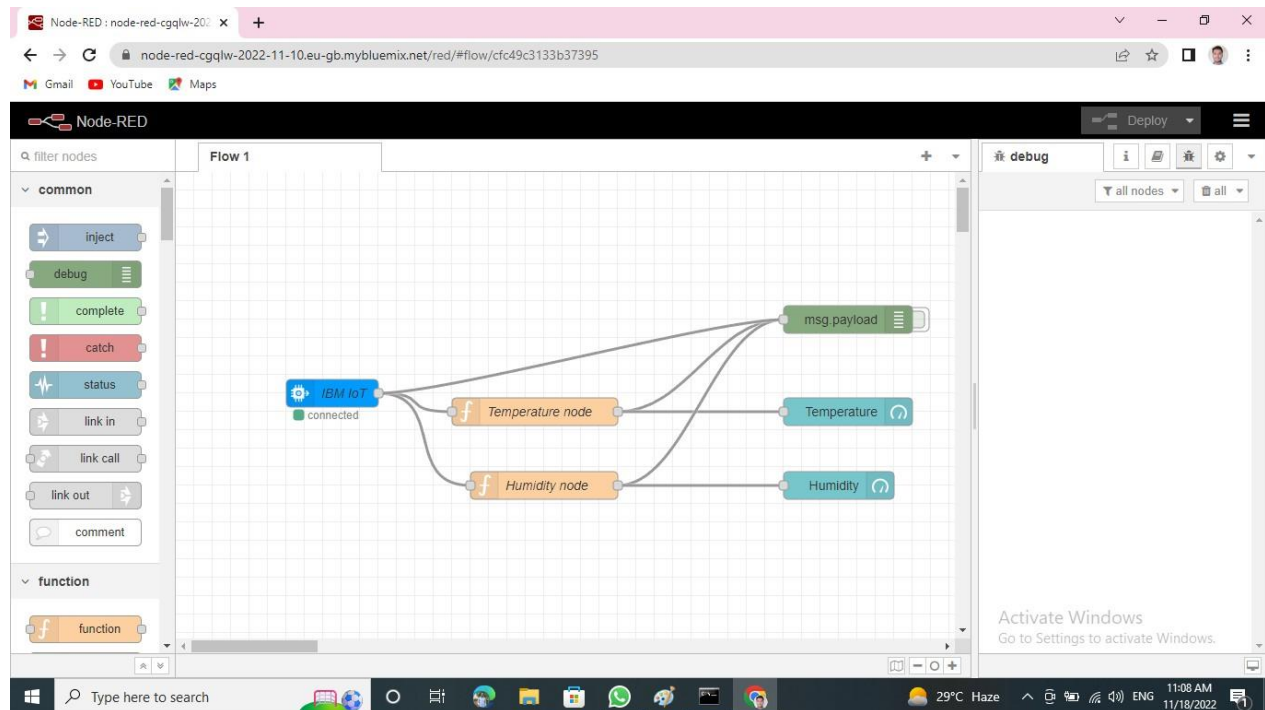


```
Command Prompt
Microsoft Windows [Version 10.0.19045.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\user>node-red
```

The screenshot shows a Windows Command Prompt window. The title bar reads "Command Prompt". The window content shows the following text: "Microsoft Windows [Version 10.0.19045.2130]", "(c) Microsoft Corporation. All rights reserved.", and "C:\Users\user>node-red". The command prompt is currently at the "C:\Users\user>" line. The Windows taskbar is visible at the bottom, showing the search bar, task view button, and several application icons. The system tray on the right shows the date and time as "10:55 AM 11/18/2022".

Step 2: Select IBM IoT input in node



Step 3: In IBM Watson platform, go to apps

The screenshot shows the IBM Watson IoT Platform dashboard. The 'Browse Devices' section is active, displaying a table of devices. The table has the following columns: Device ID, Status, Device Type, Class ID, and Date Added. A single device is listed in the table.

Device ID	Status	Device Type	Class ID	Date Added
trainingid	Disconnected	ayyanar1234	Device	16 Nov 2022 11:25

The dashboard also includes a search bar for 'Search by Device ID', a 'Device Simulator' toggle, and a '1 Simulation running' status indicator. The bottom status bar shows the system time as 9:15 AM on 11/18/2022.

Step 4: Click on generate API keys

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Browse Devices' section has a table with the following data:

Device ID	Status	Device Type	Class ID	Date Added
trainingid	Disconnected	ayyanar1234	Device	16 Nov 2022 11:25

Below the table, it indicates '1 Simulation running'. The bottom status bar shows the system time as 9:15 AM on 11/18/2022.

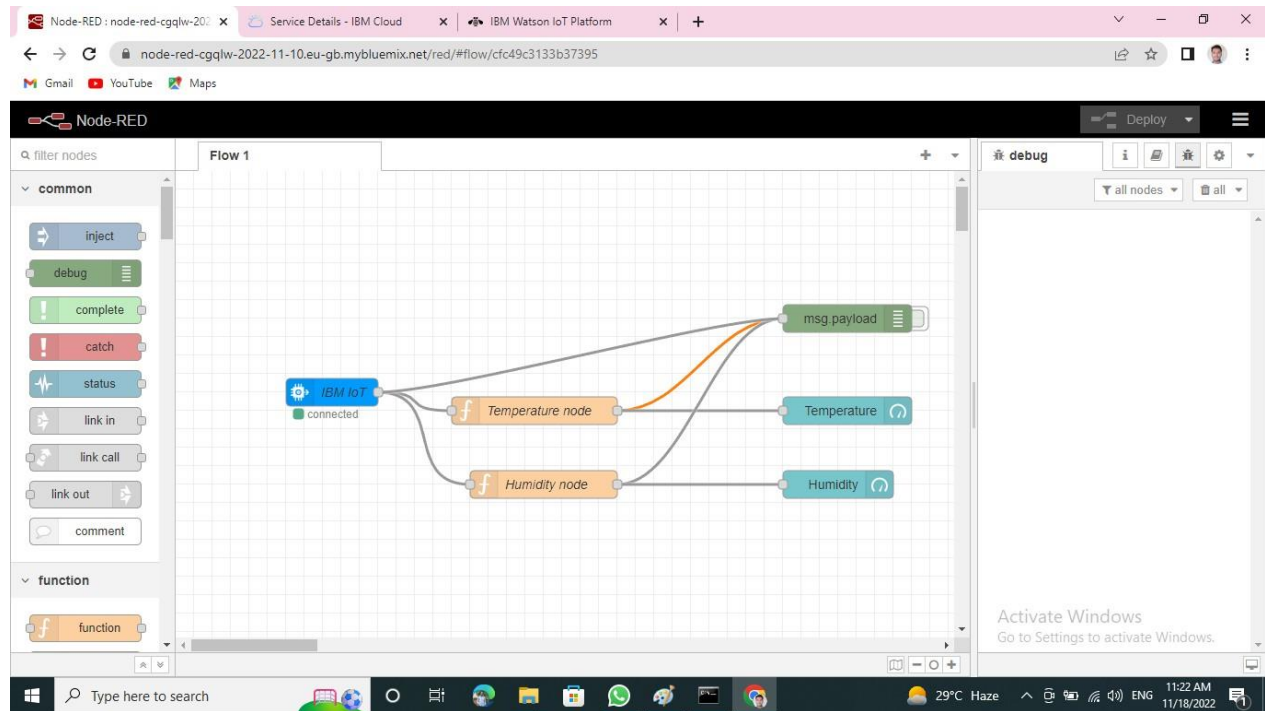
Step5: Click gauge from the dashboard node and fill the details

The screenshot shows the Node-RED interface with the 'Edit ibmiot in node' configuration panel open. The configuration details are as follows:

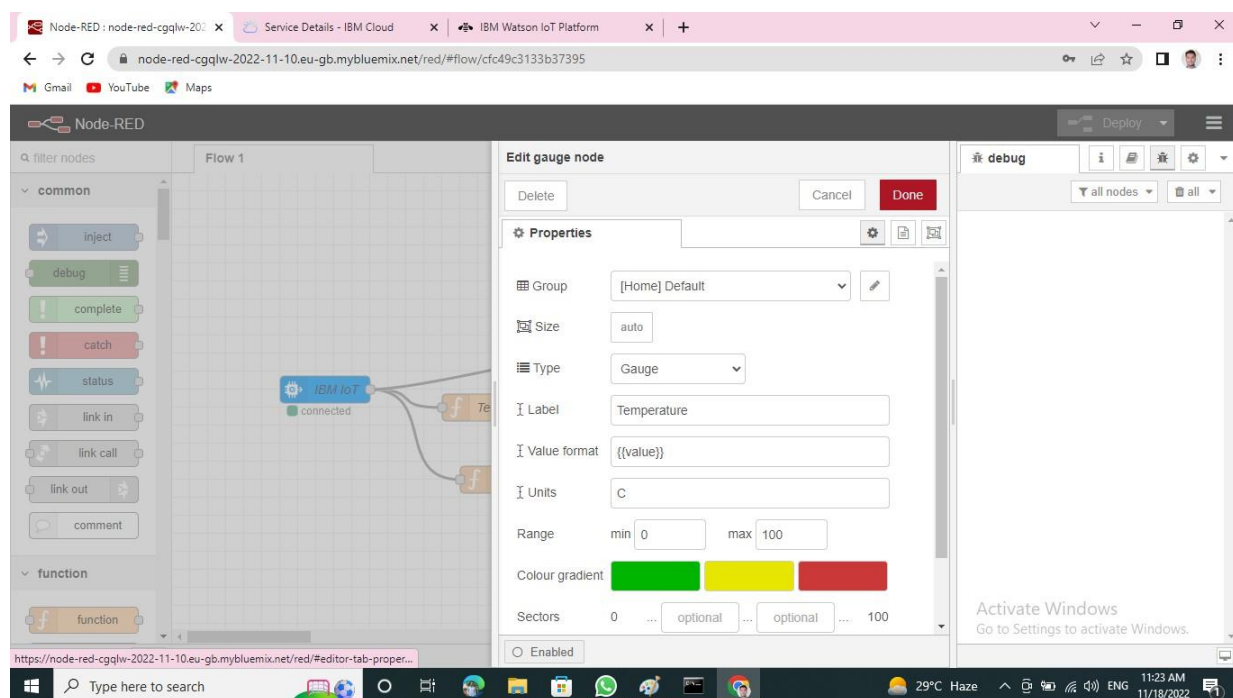
- Authentication: API Key
- API Key: ibmiot 1
- Input Type: Device Event
- Device Type: ayyanar1234
- Device Id: trainingid
- Event: All or +
- Format: All or json
- QoS: 0
- Name: IBM IoT

The 'Enabled' checkbox is checked. The bottom status bar shows the system time as 11:22 AM on 11/18/2022.

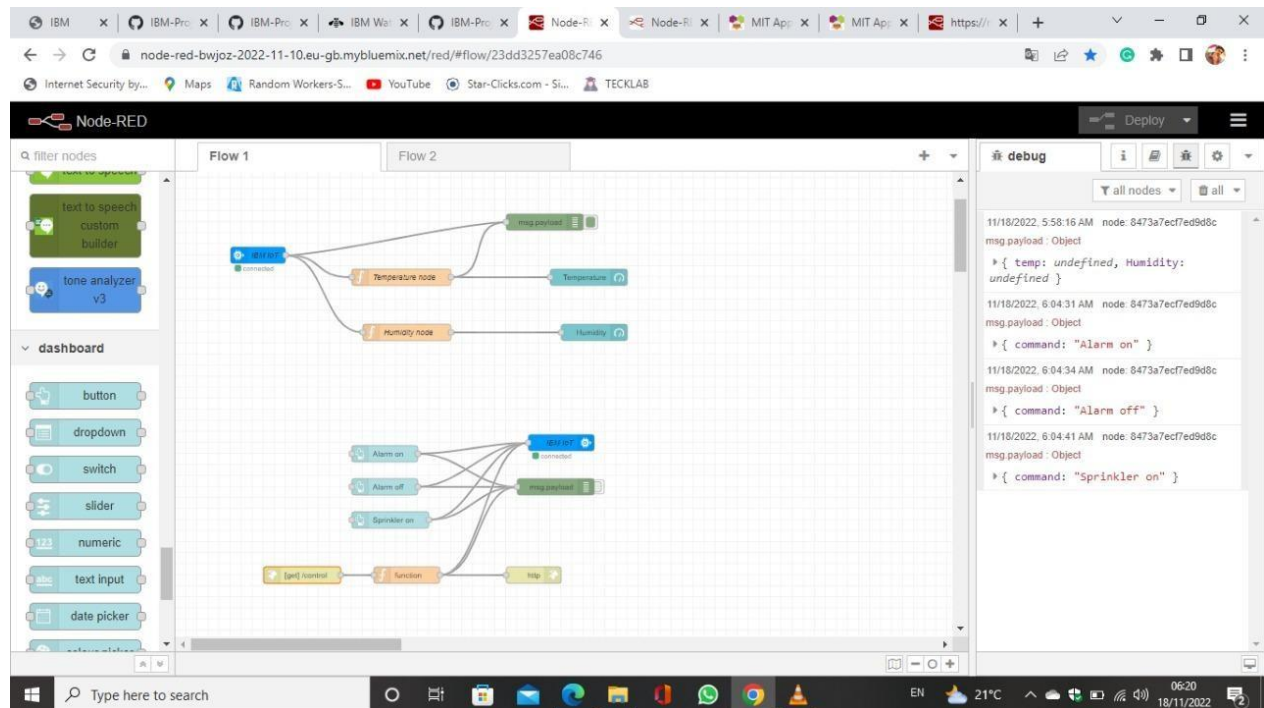
Step 6: Add functions to the gauge



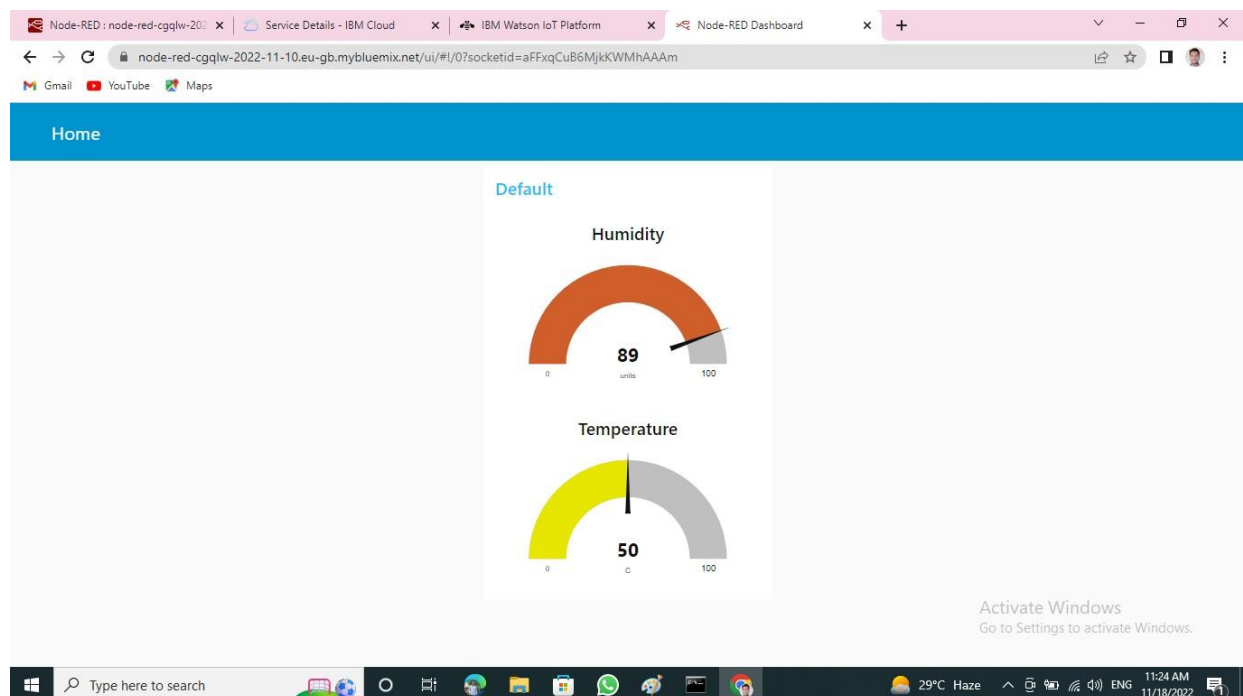
Step 7: Add another gauge and functions



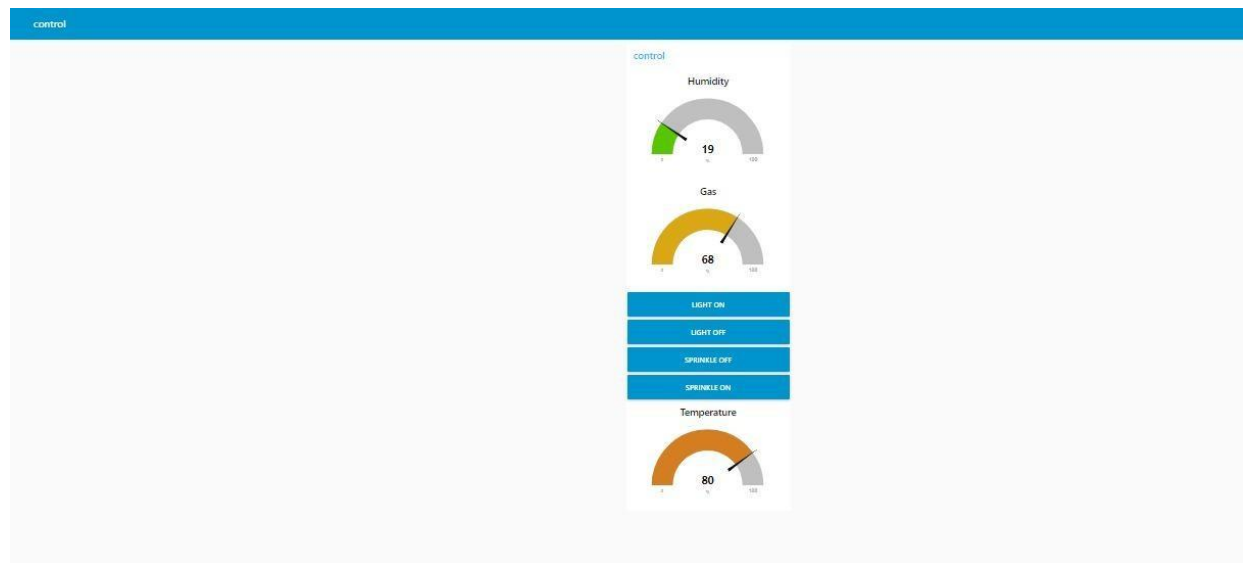
Step8: finally add alarm on and off buttons to IBM iot and debug.step



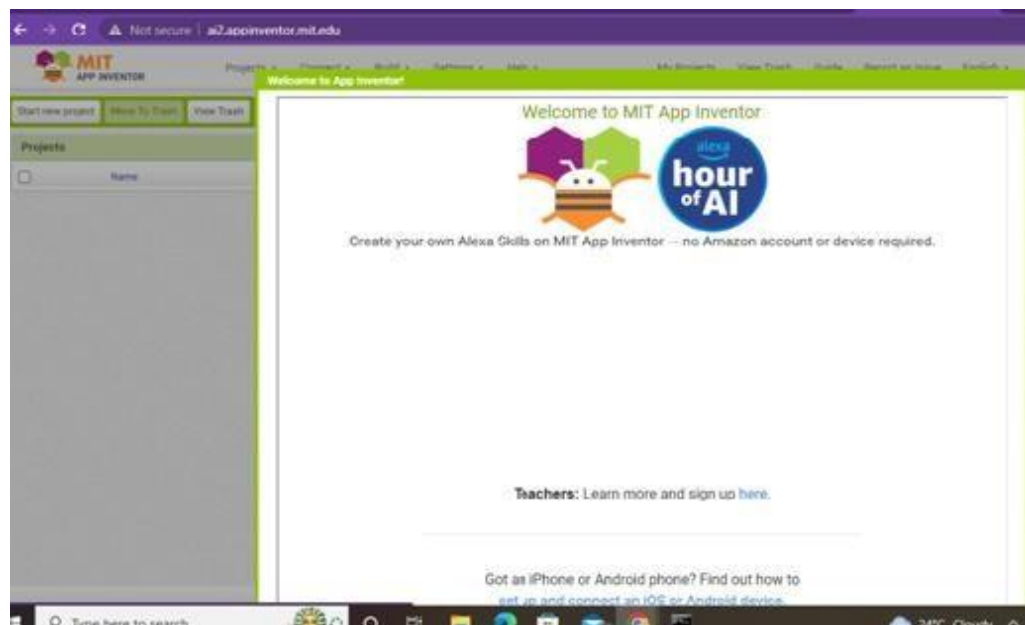
Step9: Output from node red



Step10: Output with light on and off button



Step 11: Login to MIT app inventor and design



Step 12: The Output

