

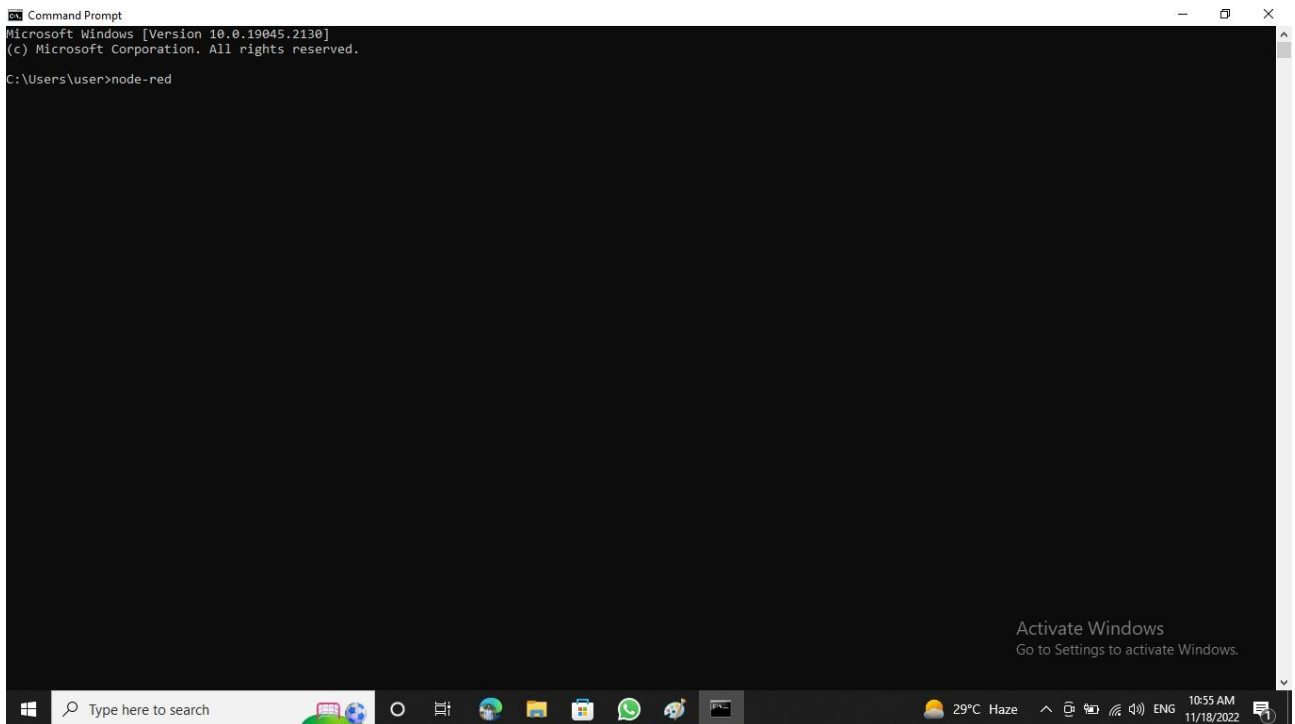
[Type text]

Project Development Phase

Delivery of Sprint 2

DATE	15 NOVEMBER 2022
TEAM ID	PNT2022TMID30997
PROJECT NAME	GAS LEAKAGE DETECTION AND ALERTING system for industries
MAXIMUM MARKS	20 MARKS

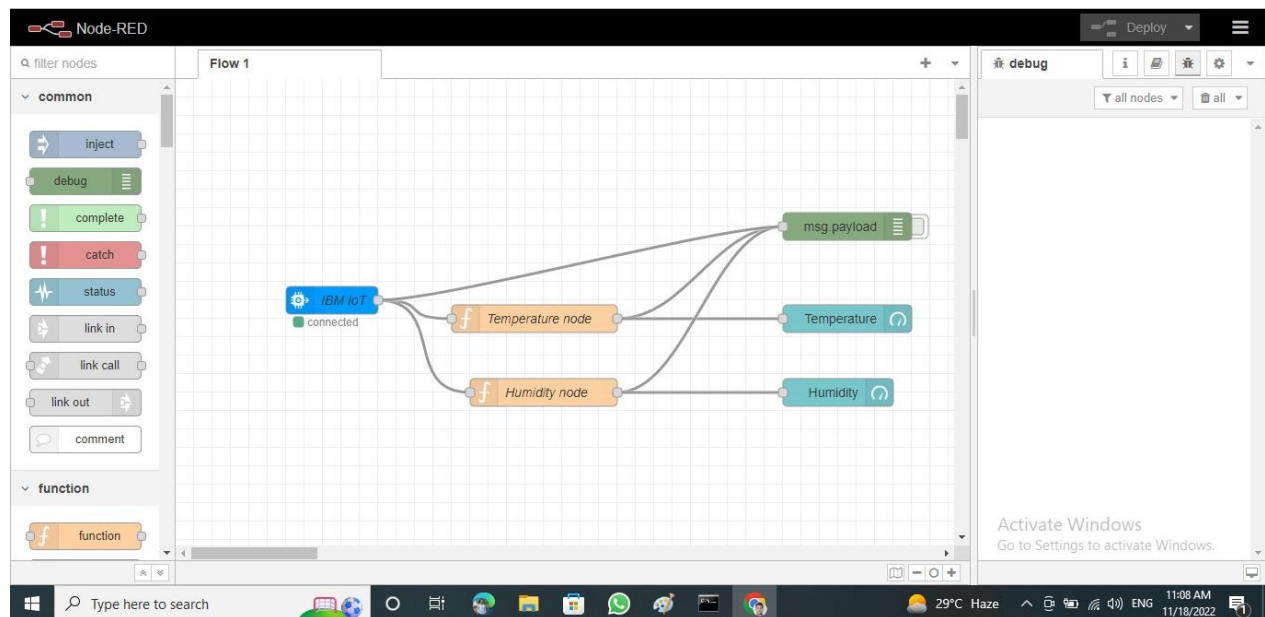
Step1: Install node red and open node red in command prompt



The screenshot shows a Windows Command Prompt window titled "Command Prompt". The text inside the window reads: "Microsoft Windows [Version 10.0.19045.2130] (c) Microsoft Corporation. All rights reserved. C:\Users\user>node-red". The command prompt is open on a Windows desktop. The taskbar at the bottom shows the search bar with "Type here to search", several application icons (including a globe, a folder, and a chat icon), and system tray information indicating "29°C Haze" and the time "10:55 AM 11/18/2022". An "Activate Windows" watermark is visible in the bottom right corner of the desktop area.

[Type text]

Step 2: Select IBM IoT input in node



Step 3: In IBM Watson platform, go to apps

The image shows the IBM Watson IoT Platform 'Browse Devices' page. The page has a sidebar with navigation icons and a main content area. The 'Browse Devices' section is active, showing a table of devices. The table has columns for Device ID, Status, Device Type, Class ID, Date Added, Descriptive Location, Added By, and Device Class. One device is listed with ID 0330, status 'Disconnected', and type 'Raspberry'. Below the table, there is a section for 'Device Information' with details like Device ID, Device Type, Date Added, Added By, and Connection Status.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By	Device Class
0330	Disconnected	Raspberry	Device	Nov 16, 2022 9:51 PM		roasttimee@gmail.com	

Device Information:

- Device ID: 0330
- Device Type: Raspberry
- Date Added: Nov 16, 2022 9:51 PM
- Added By: roasttimee@gmail.com
- Connection Status: Disconnected
- Last Connected: Nov 20, 2022 8:37 AM
- Client Address: 157.51.198.152
- SecureToken
- Duration: 8 minutes
- Data Transferred: 22.8 KB

[Type text]

Step 4: Click on generate API keys

IBM Watson IoT Platform

Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By	Device Class
0330	Disconnected	Raspberry	Device	Nov 16, 2022 9:51 PM		roastimee@gmail.com	

Identity Device Information Recent Events State Logs

Device ID 0330

Device Type Raspberry

Date Added Nov 16, 2022 9:51 PM

Added By roastimee@gmail.com

Connection Status

Disconnected

Last Connected: Nov 20, 2022 8:37 AM

Client Address: 157.51.198.152 SecureToken

Duration: 8 minutes

Data Transferred: 22.8 KB

Items per page 50 1-1 of 1 item

1 of 1 page

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

Node-RED

Flow 1

common

inject

debug

complete

catch

status

link in

link call

link out

comment

function

function

IBM IoT

connected

Edit ibmiot in node

Delete Cancel Done

Properties

Authentication API Key

API Key ibmiot 1

Input Type Device Event

Device Type All or ayyanar1234

Device Id All or trainingid

Event All or +

Format All or json

QoS 0

Name IBM IoT

Enabled

debug

all nodes

all

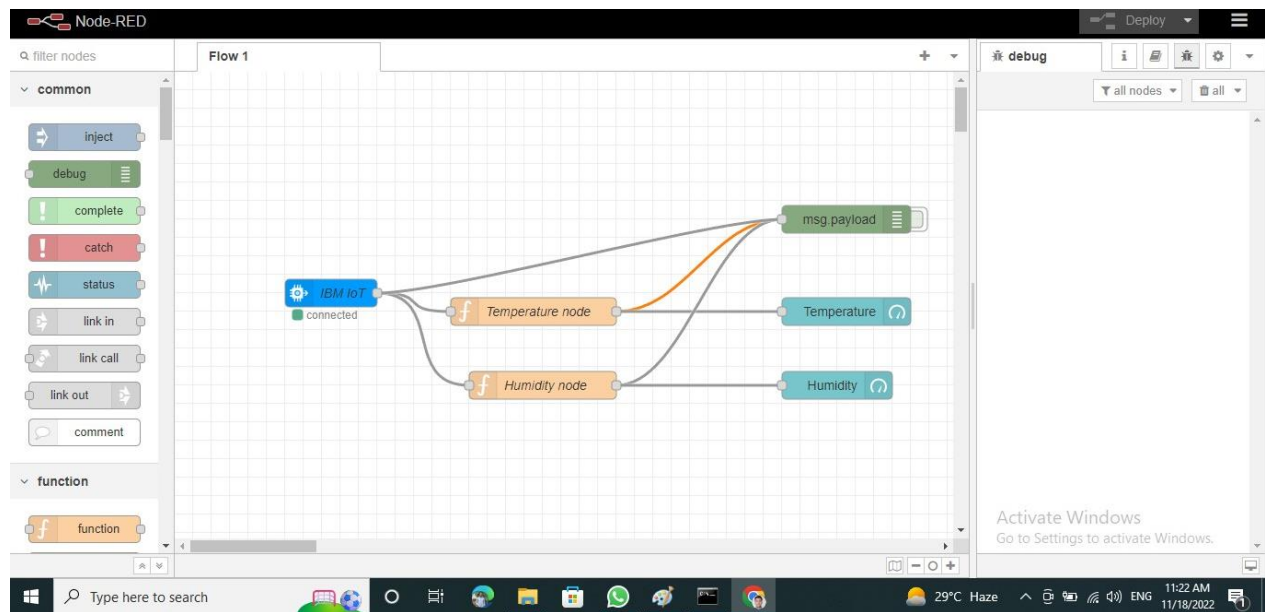
Activate Windows

Go to Settings to activate Windows.

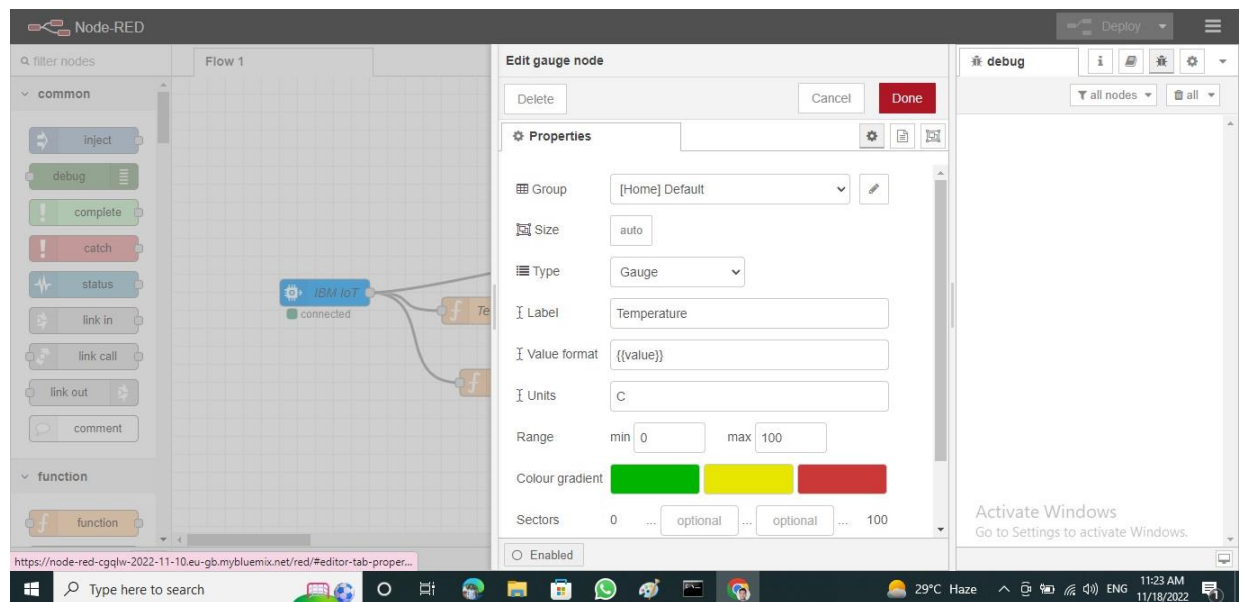
11:22 AM 11/18/2022

[Type text]

Step 6: Add functions to the gauge

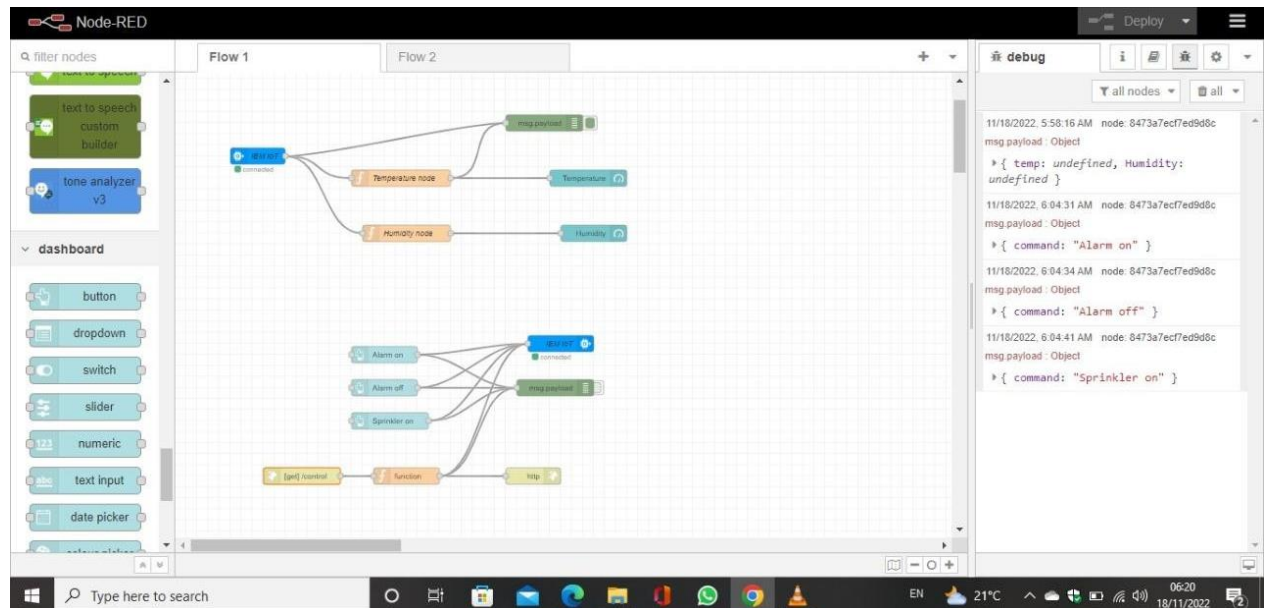


Step 7: Add another gauge and functions

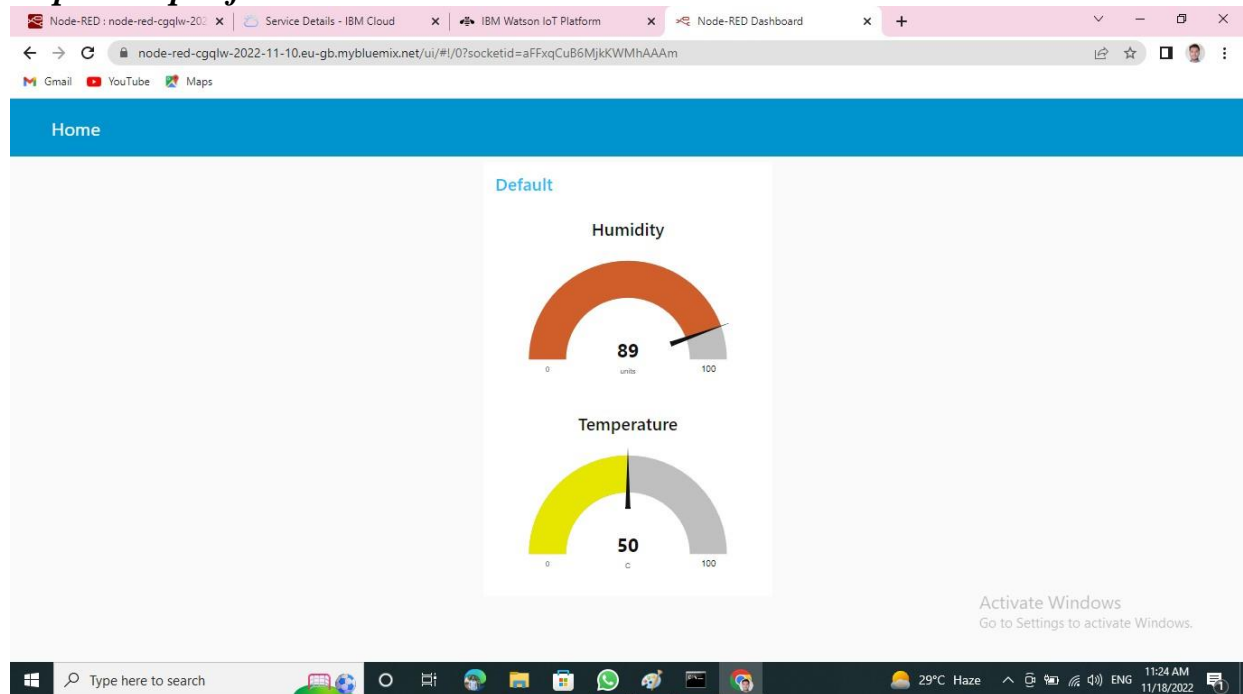


[Type text]

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

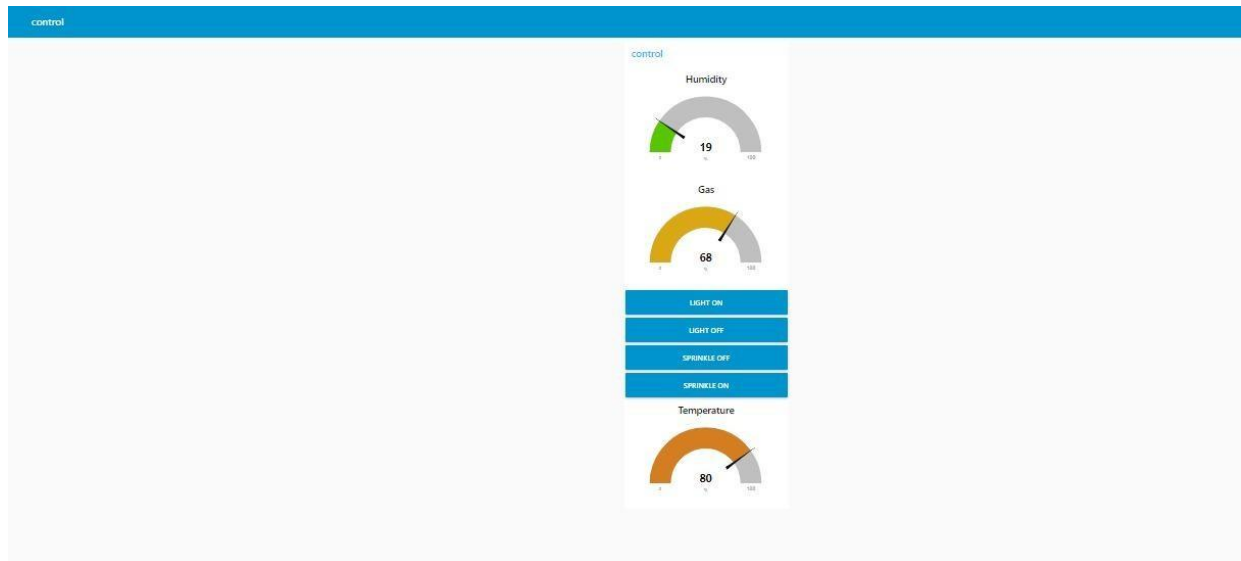


Step9: Output from node red

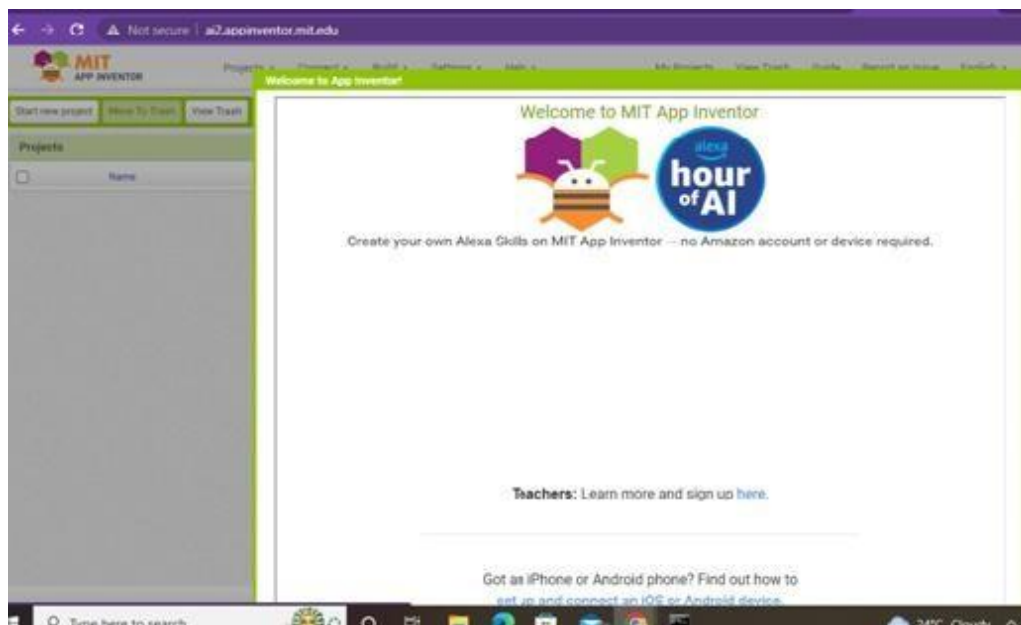


Step10: Output with light on and off button

[Type text]



Step 11: Login to MIT app inventor and design



[Type text]

Step 12: The Output

