

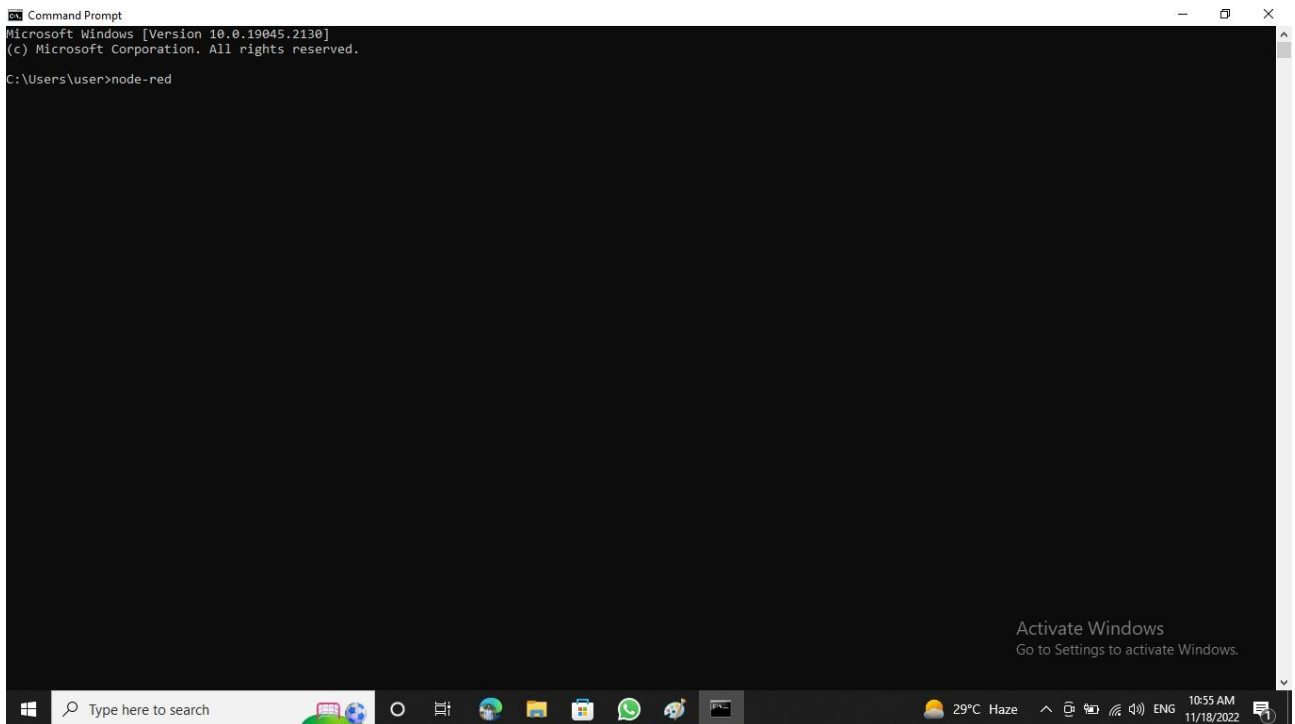
[Type text]

## Project Development Phase

### Delivery of Sprint 2

<b>DATE</b>	15 NOVEMBER 2022
<b>TEAM ID</b>	PNT2022TMID31012
<b>PROJECT NAME</b>	GAS LEAKAGE DETECTION AND ALERTING SYSTEM FOR INDUSTRIES
<b>MAXIMUM MARKS</b>	20 MARKS

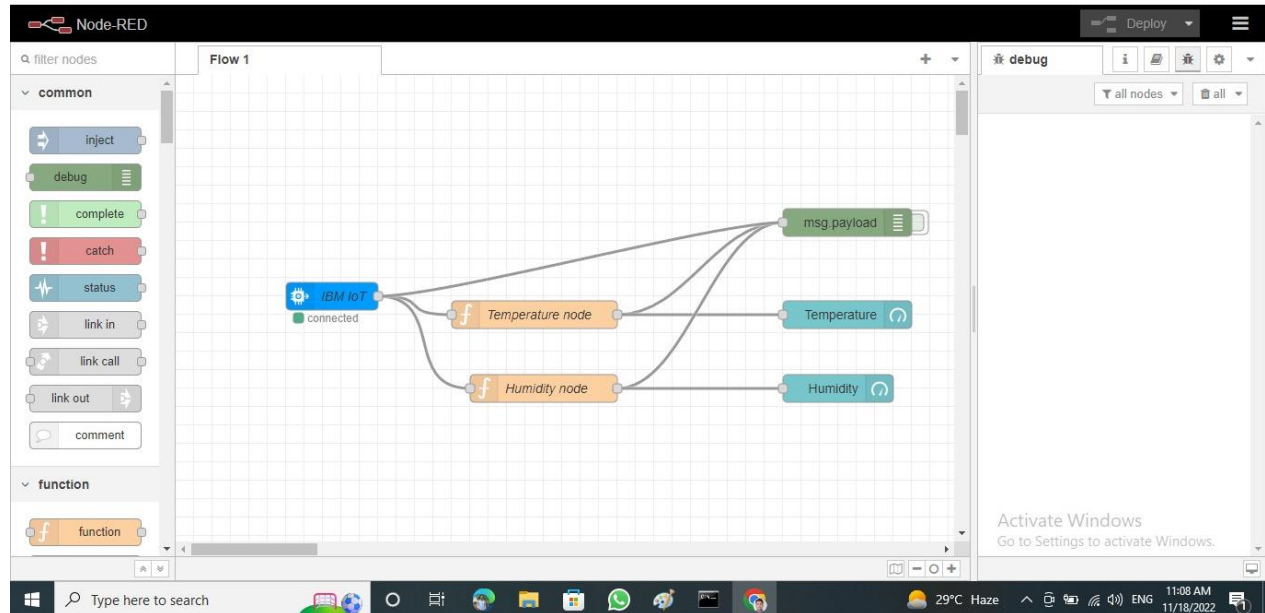
***Step1: Install node red and open node red in command prompt***



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, task view button, and several application icons including File Explorer, Edge, and WhatsApp. The system tray on the right shows the date and time as 10:55 AM on 11/18/2022, along with weather information (29°C Haze) and system icons.

[Type text]

## Step 2: Select IBM IoT input in node



## Step 3: In IBM Watson platform, go to apps

The screenshot shows the 'Browse Devices' page in the IBM Watson IoT Platform. The page has a sidebar with navigation icons and a main content area. The main content area has a 'Browse' tab selected, and a 'Diagnose' button. Below the buttons, there is a table of devices. The table has columns: 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'. A modal window is open showing details for this device.

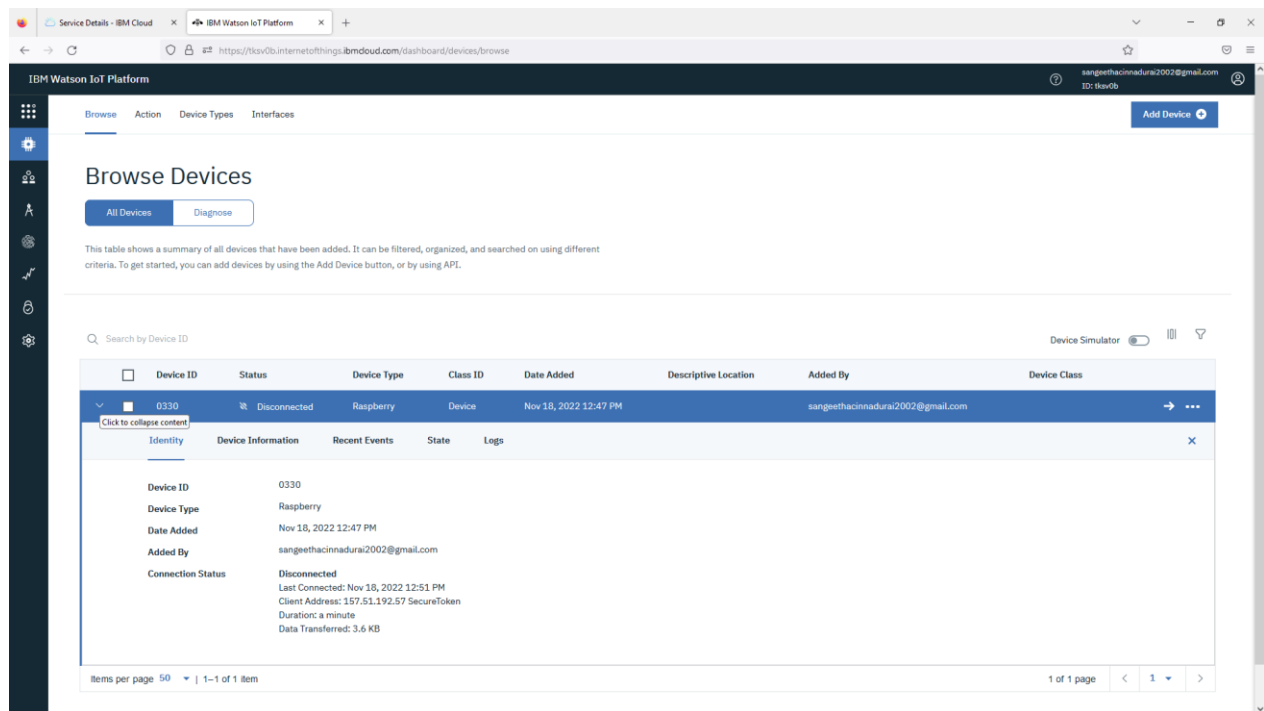
Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By	Device Class
0330	Disconnected	Raspberry	Device	Nov 18, 2022 12:47 PM		sangeethacinnadurai2002@gmail.com	

Identity	
Device ID	0330
Device Type	Raspberry
Date Added	Nov 18, 2022 12:47 PM
Added By	sangeethacinnadurai2002@gmail.com
Connection Status	Disconnected
	Last Connected: Nov 18, 2022 12:51 PM
	Client Address: 157.51.192.57 SecureToken
	Duration: a minute
	Data Transferred: 3.6 KB

[Type text]

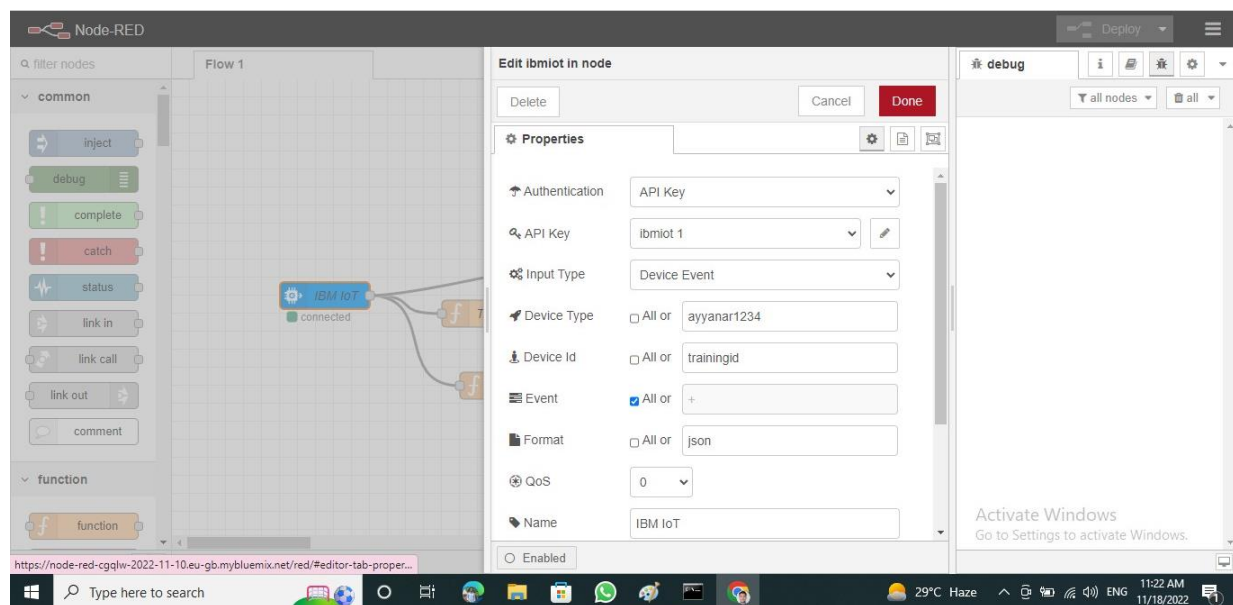
#### Step 4: Click on generate API keys



The screenshot shows the IBM Watson IoT Platform interface. The main heading is "Browse Devices". Below it, there are tabs for "All Devices" and "Diagnose". A table lists devices with columns: Device ID, Status, Device Type, Class ID, Date Added, Descriptive Location, Added By, and Device Class. One device is selected, and its details are shown in a sidebar. The details include:

- Device ID: 0330
- Device Type: Raspberry
- Date Added: Nov 18, 2022 12:47 PM
- Added By: sangethacinnadura2002@gmail.com
- Connection Status: Disconnected
- Last Connected: Nov 18, 2022 12:51 PM
- Client Address: 157.51.192.57 SecureToken
- Duration: a minute
- Data Transferred: 3.6 KB

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

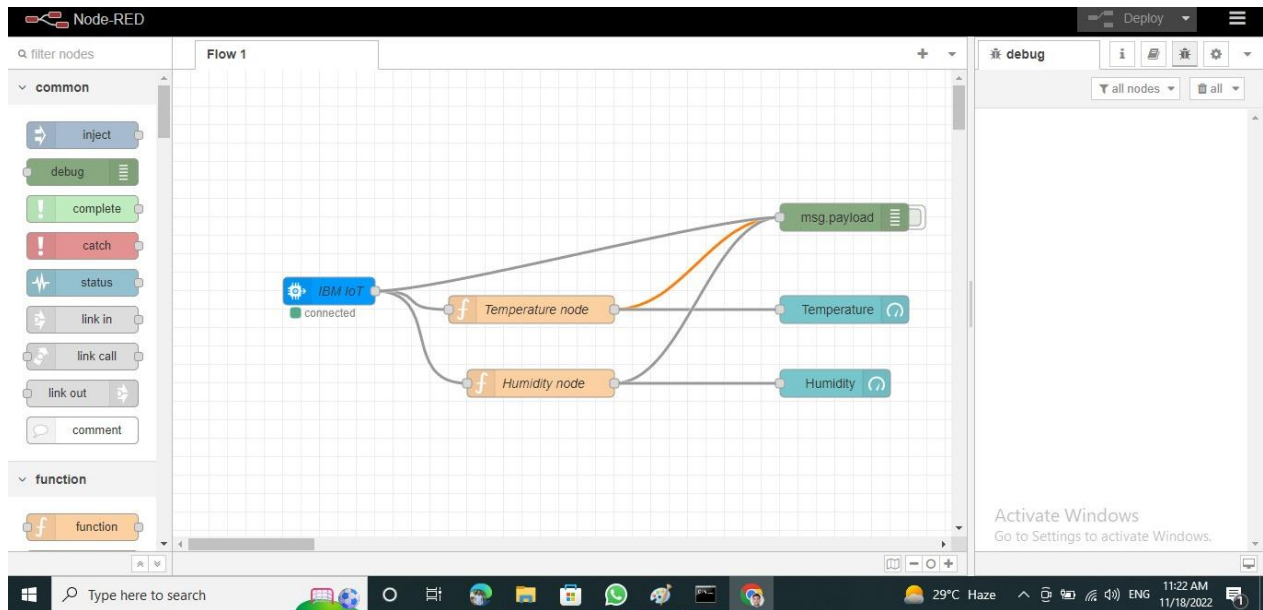


The screenshot shows the Node-RED interface. The "Edit ibmiot in node" dialog is open, showing the configuration for an IBM IoT node. The configuration includes:

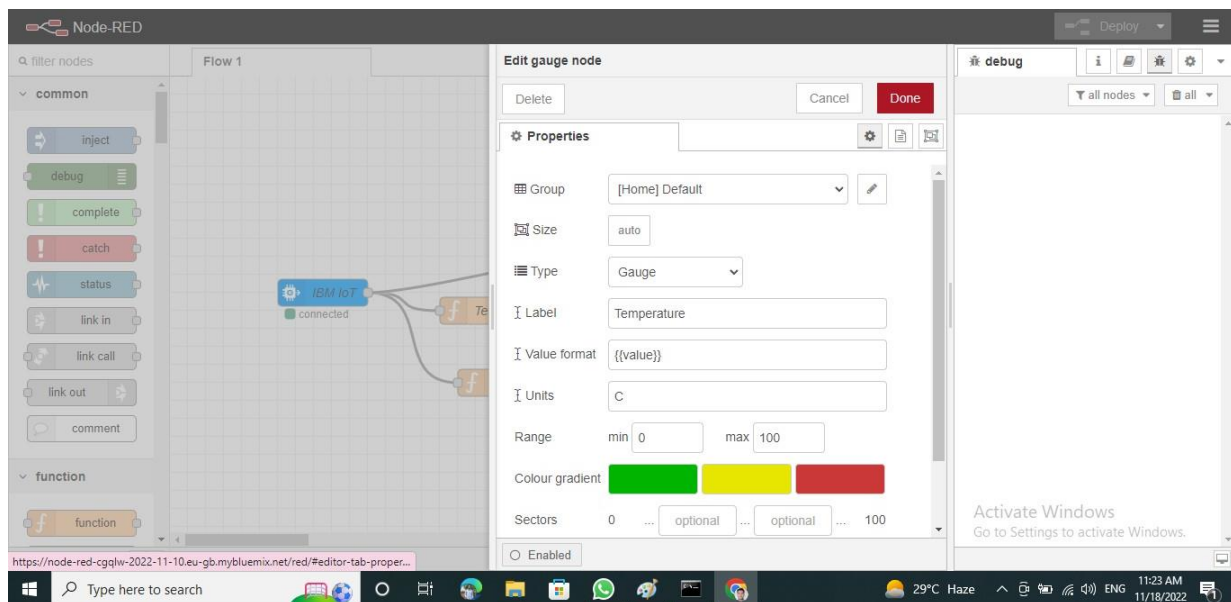
- Authentication: API Key
- API Key: ibmiot 1
- Input Type: Device Event
- Device Type: ayyanar1234
- Device Id: trainingid
- Event: +
- Format: json
- QoS: 0
- Name: IBM IoT

[Type text]

## Step 6: Add functions to the gauge

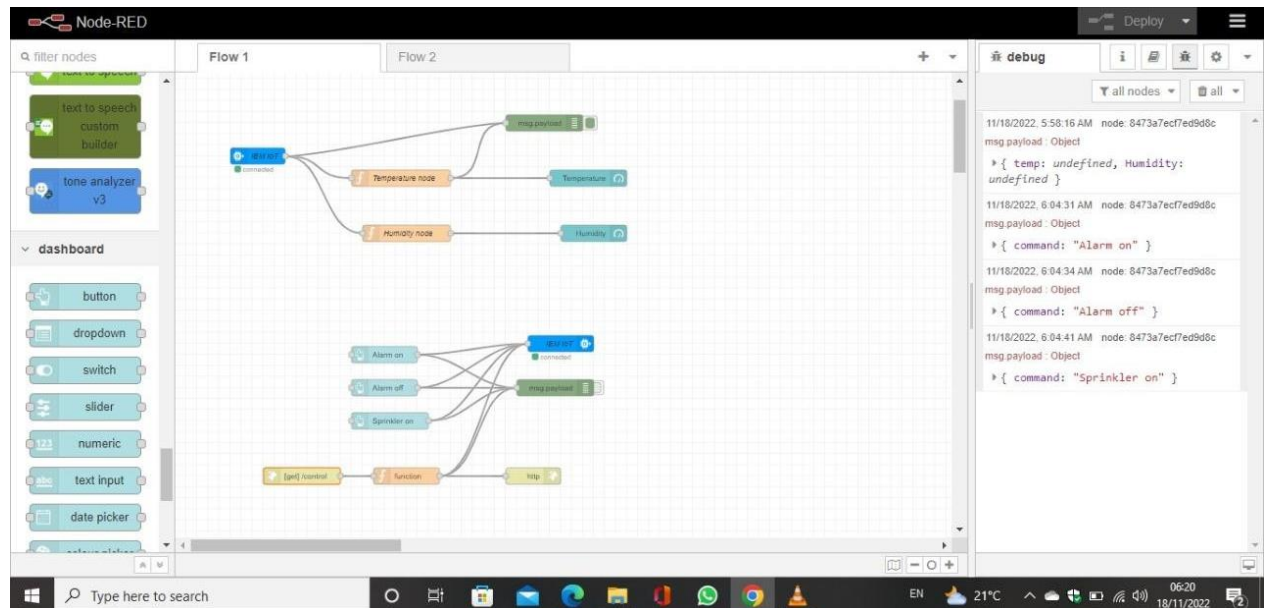


## Step 7: Add another gauge and functions

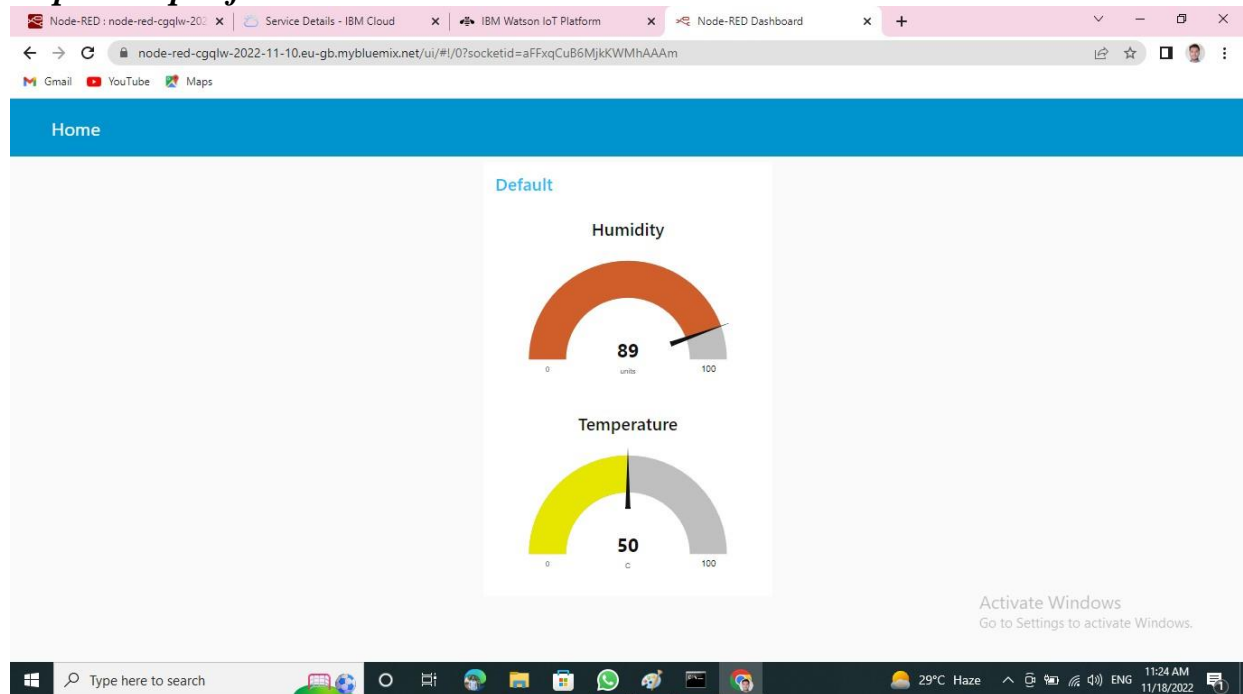


[Type text]

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

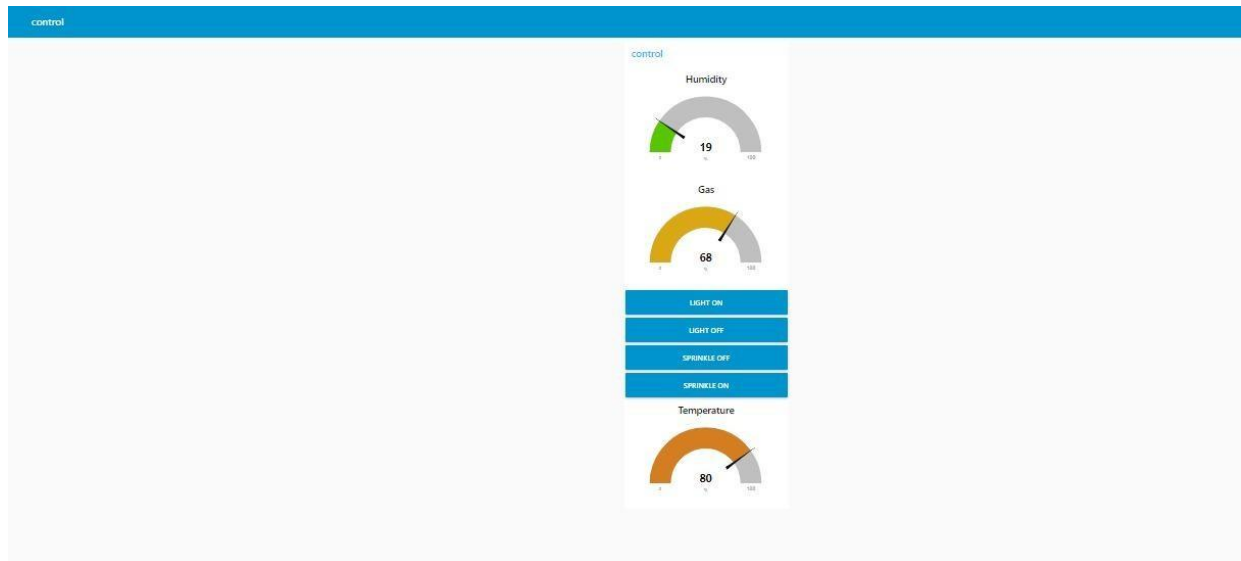


**Step9: Output from node red**

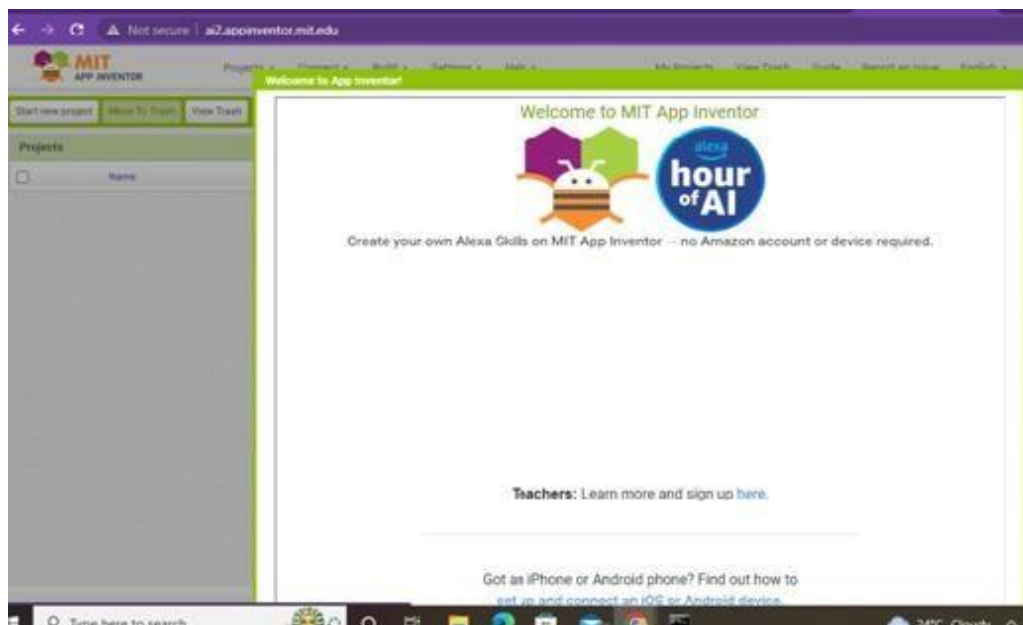


**Step10: Output with light on and off button**

[Type text]



***Step 11: Login to MIT app inventor and design***



[Type text]

## Step 12: The Output

