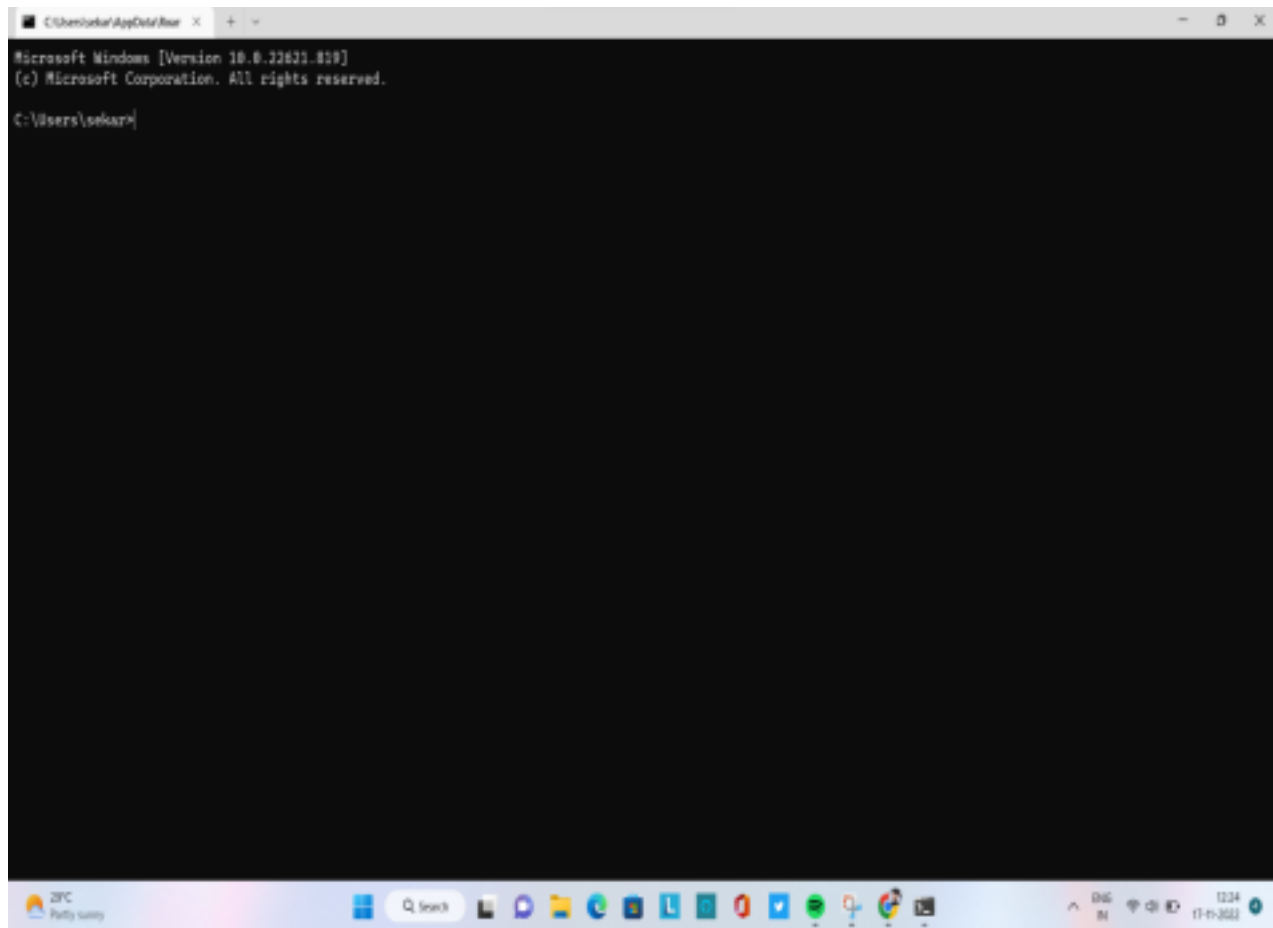


Create And Configure IBM Cloud Services

Create Node-Red Service

Date	1 November 2022
Team ID	PNT2022TMI19096
Project Name	IoT Based Smart Crop Protection System For Agriculture



```
Microsoft Windows [Version 10.0.22621.819]
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C:\Users\sekar>node-red
17 Nov 12:25:02 - [info]

Welcome to Node-RED
=====

17 Nov 12:25:02 - [info] Node-RED version: v3.0.2
17 Nov 12:25:02 - [info] Node.js version: v18.12.0
17 Nov 12:25:02 - [info] Windows_NT 10.0.22621 x64 LE
17 Nov 12:25:03 - [info] Loading palette nodes
17 Nov 12:25:06 - [info] Dashboard version 3.1.0 started at /ui
17 Nov 12:25:06 - [info] Settings file : C:\Users\sekar\.node-red\settings.js
17 Nov 12:25:06 - [info] Context store : 'default' [in-memory]
17 Nov 12:25:06 - [info] User directory : C:\Users\sekar\.node-red
17 Nov 12:25:06 - [warn] Projects disabled : editorTheme.projects.enabled=false
17 Nov 12:25:06 - [info] Flows file : C:\Users\sekar\.node-red\flows.json
17 Nov 12:25:06 - [info] Server now running at http://127.0.0.1:1880/
17 Nov 12:25:06 - [warn]

Your flow credentials file is encrypted using a system-generated key.

If the system-generated key is lost for any reason, your credentials
file will not be recoverable, you will have to delete it and re-enter
your credentials.

You should set your own key using the 'credentialSecret' option in
your settings file. Node-RED will then re-encrypt your credentials
file using your chosen key the next time you deploy a change.

17 Nov 12:25:06 - [info] Starting flows
17 Nov 12:25:06 - [info] Started flows
```

The screenshot displays the Node-RED web interface in a browser window. The address bar shows the URL `127.0.0.1:1880/flows/c2ab69b4ca14f3a`. The interface is divided into several sections:

- Left Panel:** Contains a search bar and two tabs: "common" and "function". The "common" tab is active, showing various nodes like inject, debug, complete, catch, status, link in, link call, link out, comment, function, switch, and change.
- Canvas:** The central workspace where a flow is being built. It includes:
 - An **IBM IoT** node (blue) connected to a **msg.payload** node (green).
 - A **TEMPERATURE NODE** (orange) connected to a **TEMPERATURE** node (blue).
 - A **HUMIDITY NODE** (orange) connected to a **HUMIDITY** node (blue).
 - A **[get] SENSOR** node (green) connected to a **httpfunctionnode** (orange), which is then connected to an **http** node (yellow).
 - A **[get] /control** node (green) connected to a **command function node** (orange), which is then connected to an **http** node (yellow).
 - Two **Light** nodes (blue) connected to a **msg.payload** node (green), which is then connected to an **IBM IoT** node (blue).
- Right Panel:** The "debug" console, showing a log of messages. The messages are JSON objects containing temperature, humidity, and soil moisture data. For example:

```
{ "temperature": 71, "humidity": 62, "soil moisture": 27 }
```