

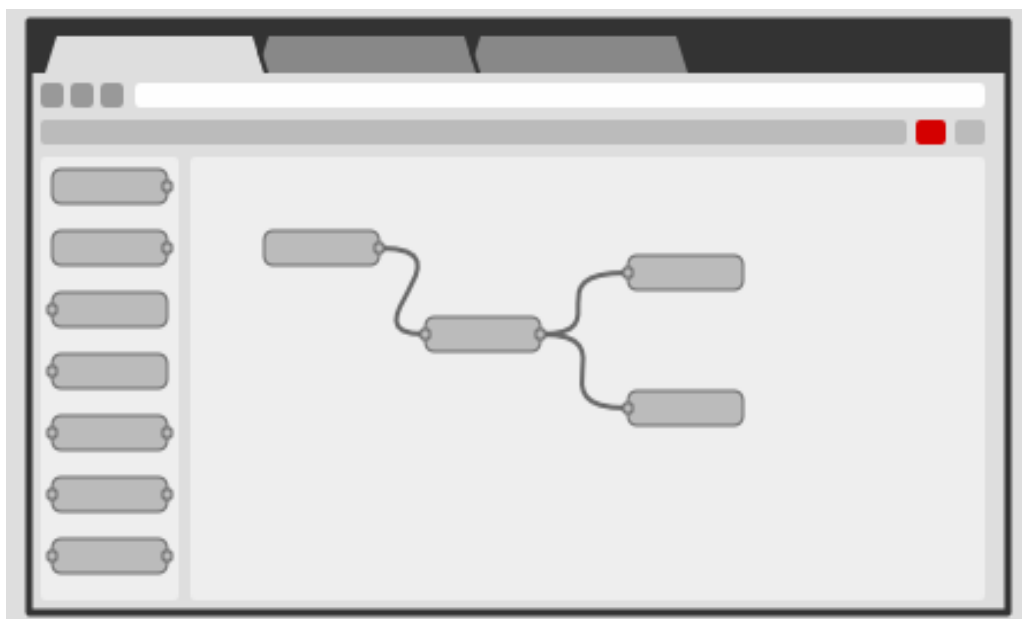
Team ID	PNT2022TMID40922
Project Name	Project -Hazardous area monitoring for industrial plant powered by IoT

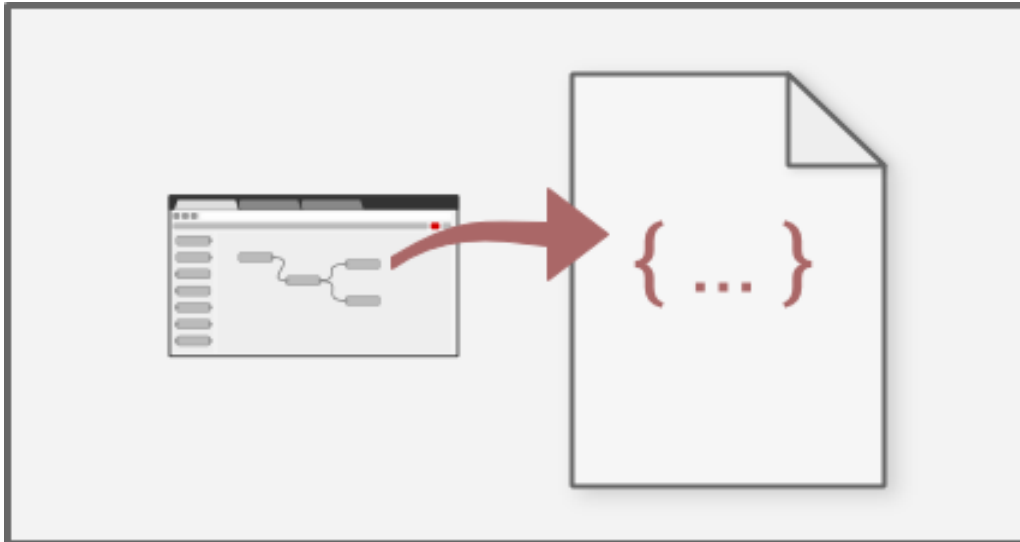
Creating NODE-RED Service

- Node-RED is a flow-based development tool for visual programming developed originally by IBM for wiring together hardware devices, APIs and online services as part of the Internet of Things.
- Node-RED provides a web browser-based flow editor, which can be used to create JavaScript functions. Elements of applications can be saved or shared for re-use.
- The runtime is built on Node.js.
- The flows created in Node-RED are stored using JSON.

Social Development:

- The flows created in Node-RED are stored using JSON which can be easily imported and exported for sharing with others.
- An online flow library allows you to share your best flows with the world.



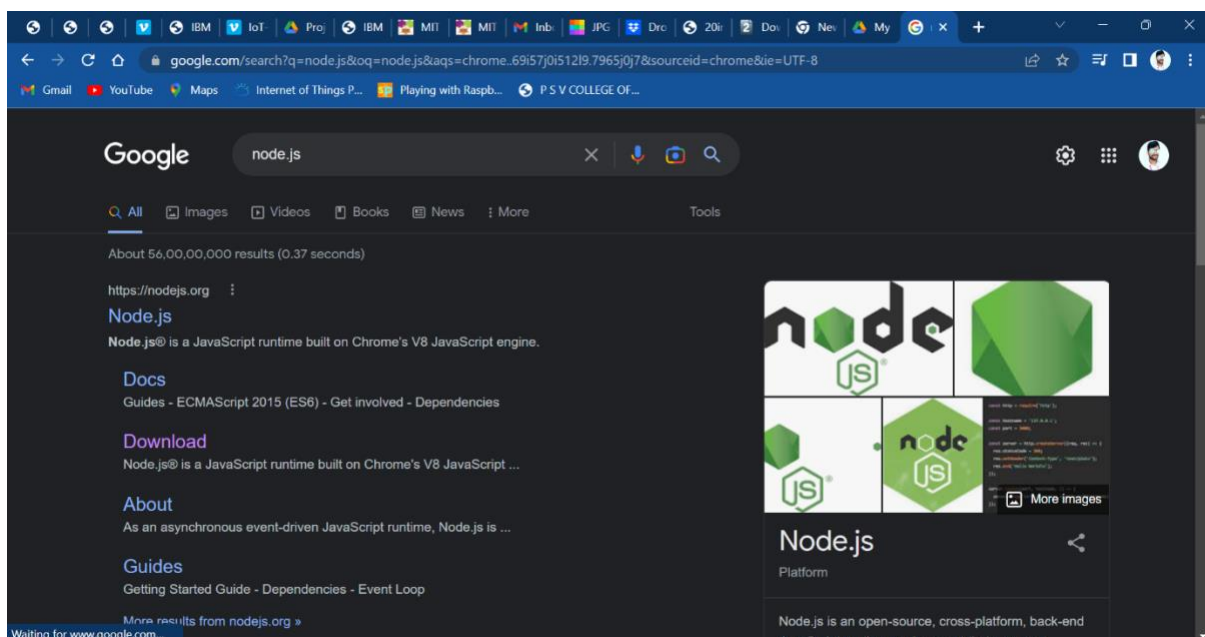


Step1: go to nodejs website and download .msi file in downloads page.

Step2:run the .msi file and install the nodejs.

Step3: install nodered in command prompt: `npm install -g --unsafe-perm node-red`


Step4: type node-red in cmd and u will get the local server link, just open it.





nodejs.org/en/download/

LTS
Recommended For Most Users

Current
Latest Features


Windows Installer
node-v18.12.0-x64.msi


macOS Installer
node-v18.12.0.pkg

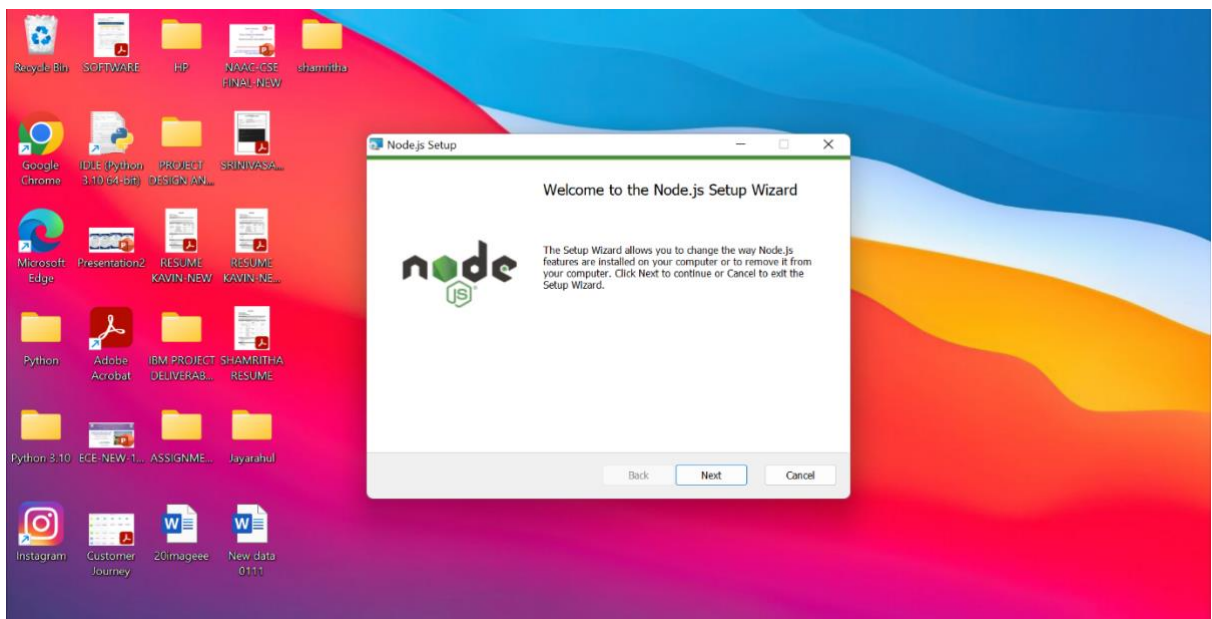

Source Code
node-v18.12.0.tar.gz

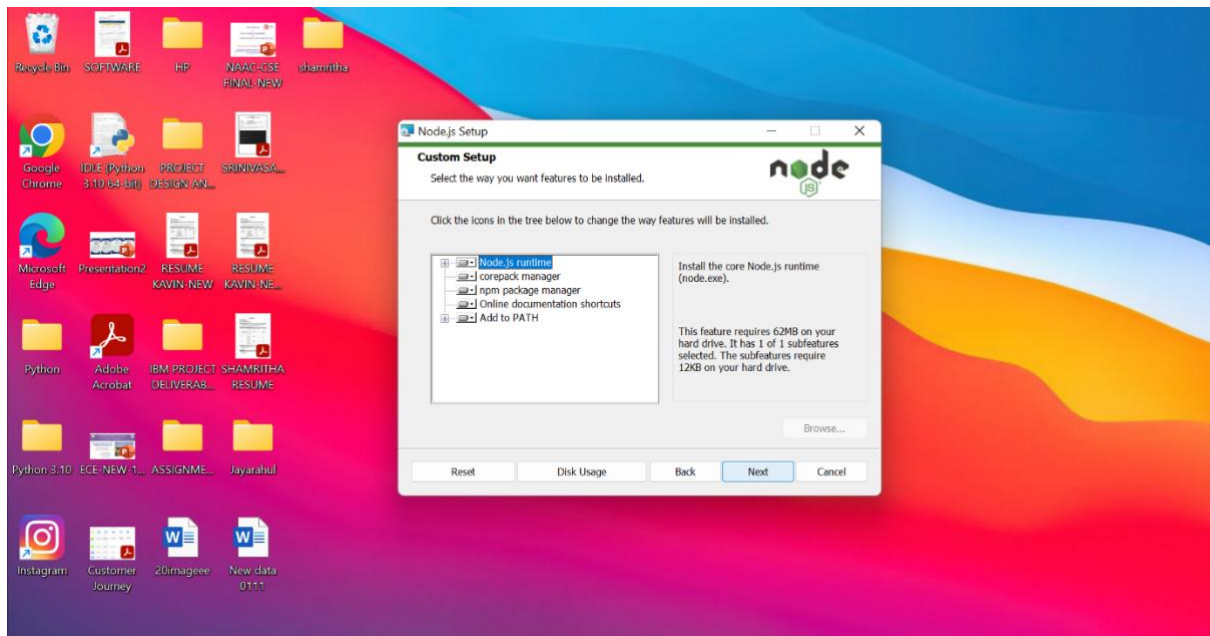
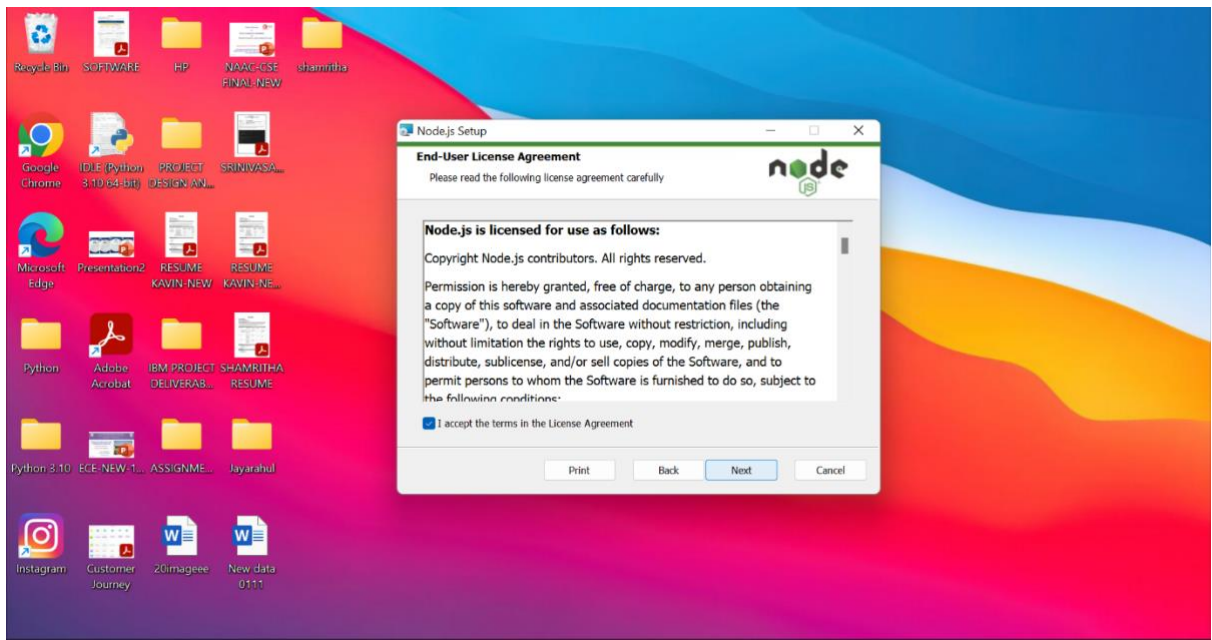
Windows Installer (.msi)
Windows Binary (.zip)
macOS Installer (.pkg)
macOS Binary (.tar.gz)
Linux Binaries (x64)
Linux Binaries (ARM)
Source Code

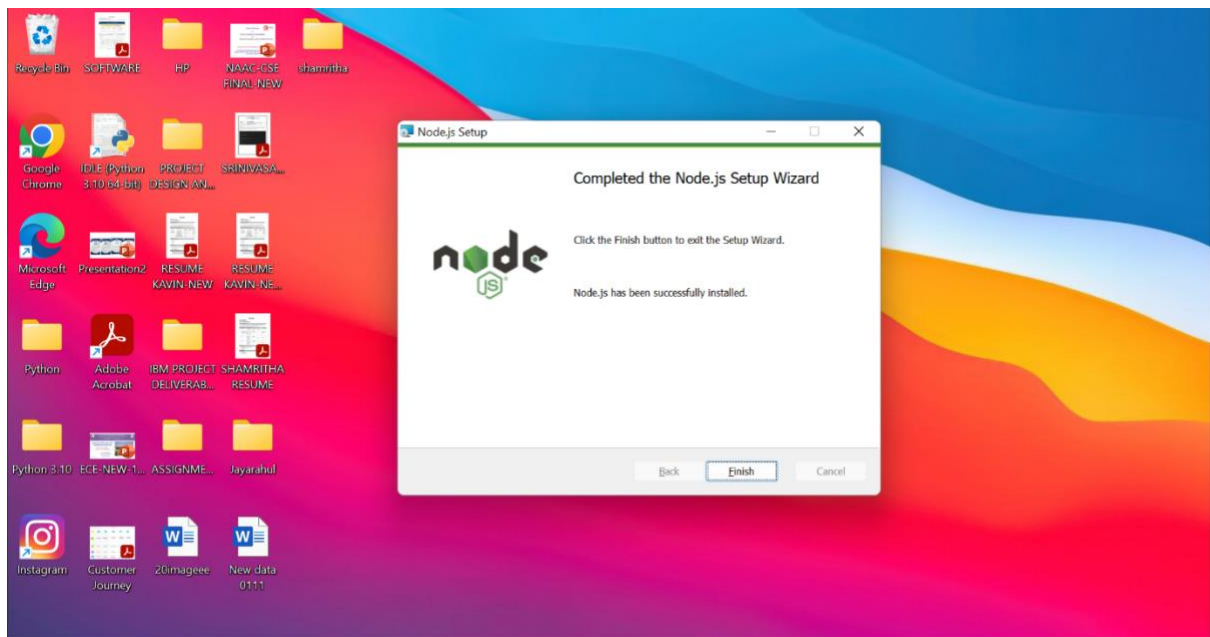
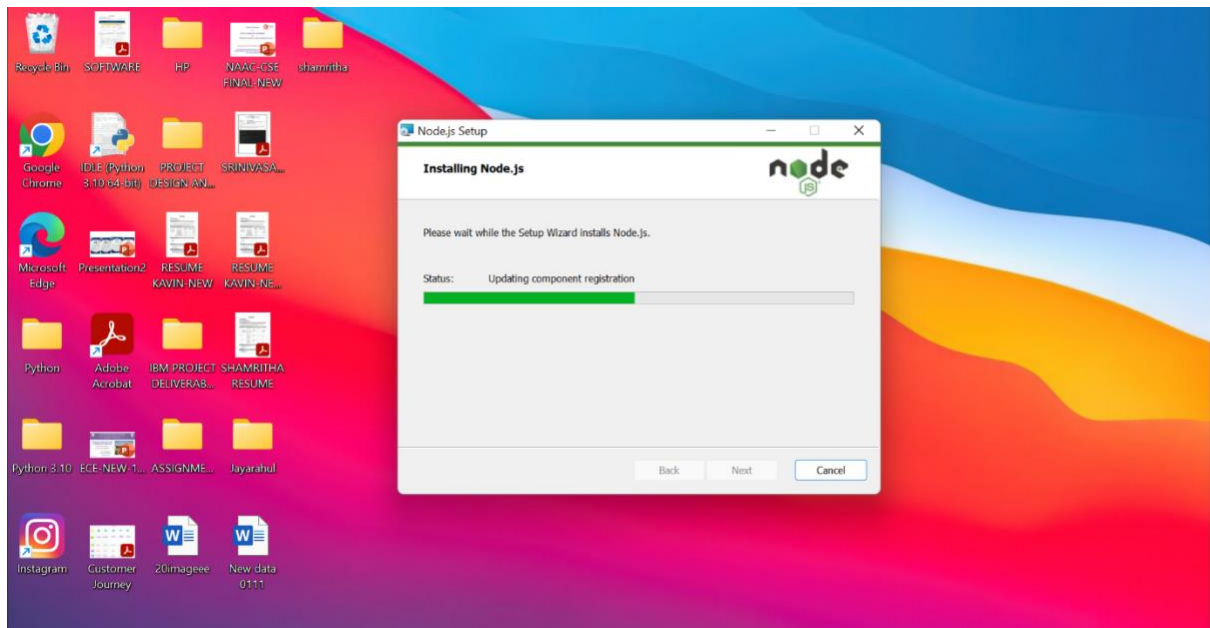
32-bit	64-bit
32-bit	64-bit
64-bit / ARM64	
64-bit	ARM64
64-bit	
ARMv7	ARMv8
node-v18.12.0.tar.gz	

Additional Platforms

<https://nodejs.org/dist/v18.12.0/node-v18.12.0-x64.msi>







```
npm install node-red
Microsoft Windows [Version 10.0.22000.1042]
(c) Microsoft Corporation. All rights reserved.

C:\Users\T.S.KAVIN>node --version
v18.12.0

C:\Users\T.S.KAVIN>npm install -g --unsafe-perm node-red
[ ] | idealTree:npm: 5511 idealTree buildDeps
```

```
npm install node-red
Microsoft Windows [Version 10.0.22000.1042]
(c) Microsoft Corporation. All rights reserved.

C:\Users\T.S.KAVIN>node --version
v18.12.0

C:\Users\T.S.KAVIN>npm install -g --unsafe-perm node-red
npm WARN deprecated @types/keyv@4.2.0: This is a stub types definition. keyv provides its own type definitions, so you do not need this installed.
[ ] | reify:node-red/editor-client: timing reifyNode:node_modules/node-red/node_modules/ajv Completed in 3360ms
```



```
Command Prompt
Microsoft Windows [Version 10.0.22000.1042]
(c) Microsoft Corporation. All rights reserved.

C:\Users\T.S.KAVIN>node --version
v18.12.0

C:\Users\T.S.KAVIN>npm install -g --unsafe-perm node-red
npm WARN deprecated @types/keyv@4.2.0: This is a stub types definition. keyv provides its own type definitions, so you do not need this installed.

changed 292 packages, and audited 293 packages in 27s

39 packages are looking for funding
  run 'npm fund' for details

5 vulnerabilities (4 low, 1 moderate)

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

Run 'npm audit' for details.

C:\Users\T.S.KAVIN>
```

```
Select node-red

To address all issues (including breaking changes), run:
  npm audit fix --force

Run 'npm audit' for details.

C:\Users\T.S.KAVIN>node-red
2 Nov 10:41:53 - [info]

Welcome to Node-RED
=====

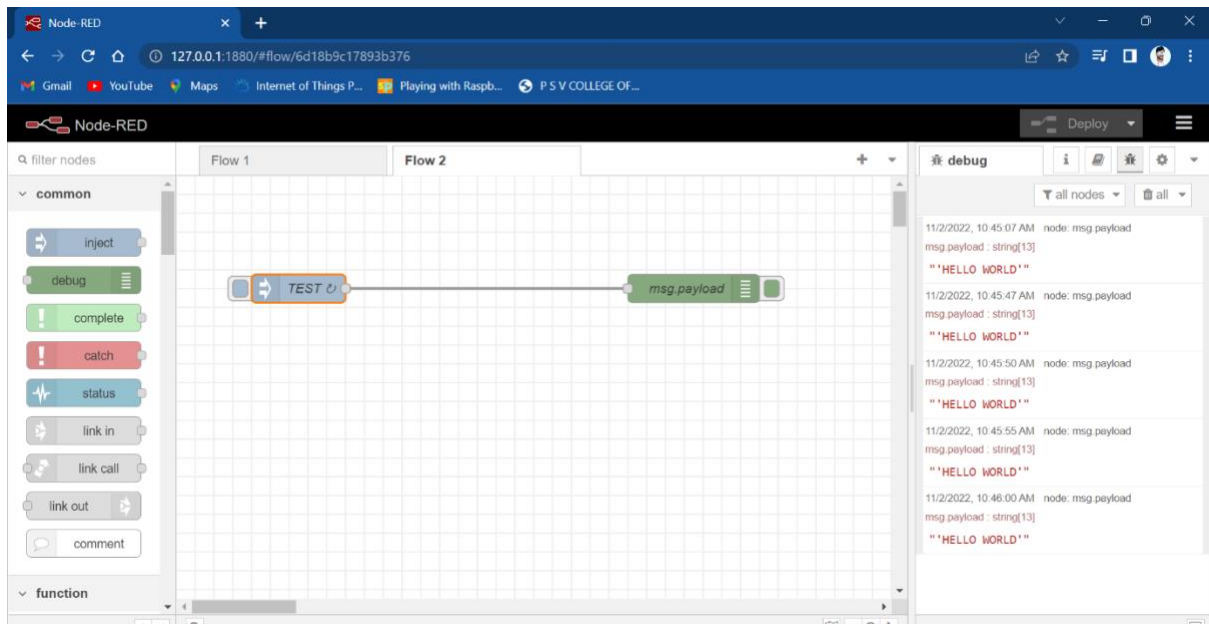
2 Nov 10:41:53 - [info] Node-RED version: v3.0.2
2 Nov 10:41:53 - [info] Node.js version: v18.12.0
2 Nov 10:41:53 - [info] Windows_NT 10.0.22000 x64 LE
2 Nov 10:41:55 - [info] Loading palette nodes
2 Nov 10:41:58 - [info] Dashboard version 3.2.0 started at /ui
2 Nov 10:41:58 - [info] Settings file : C:\Users\T.S.KAVIN\.node-red\settings.js
2 Nov 10:41:58 - [info] Context store : 'default' [module=memory]
2 Nov 10:41:58 - [info] User directory : \Users\T.S.KAVIN\.node-red
2 Nov 10:41:58 - [warn] Projects disabled : editorTheme.projects.enabled=false
2 Nov 10:41:58 - [info] Flows file : \Users\T.S.KAVIN\.node-red\flows.json
2 Nov 10:41:58 - [info] Server now running at http://127.0.0.1:1880/
2 Nov 10:41:58 - [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.
-----

2 Nov 10:41:58 - [info] Starting flows
2 Nov 10:41:58 - [info] Started flows
```



Thus we created NODE-RED Service.