

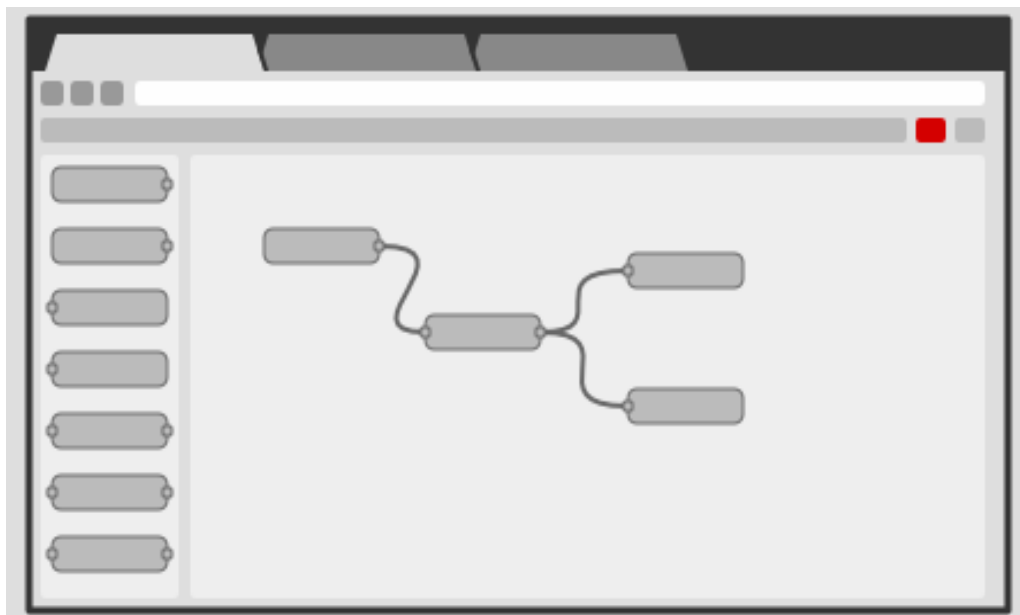
<b>Team ID</b>	<b>PNT2022TMID40891</b>
<b>Project Name</b>	<b>IoT Based Smart Crop Protection System For Agriculture</b>

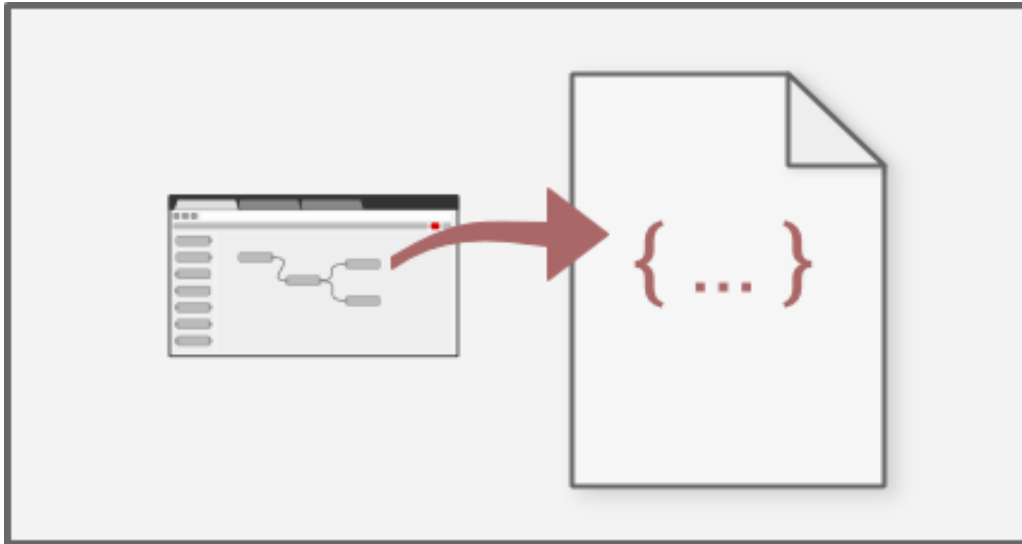
## **Creating NODE-RED Service**

- 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.



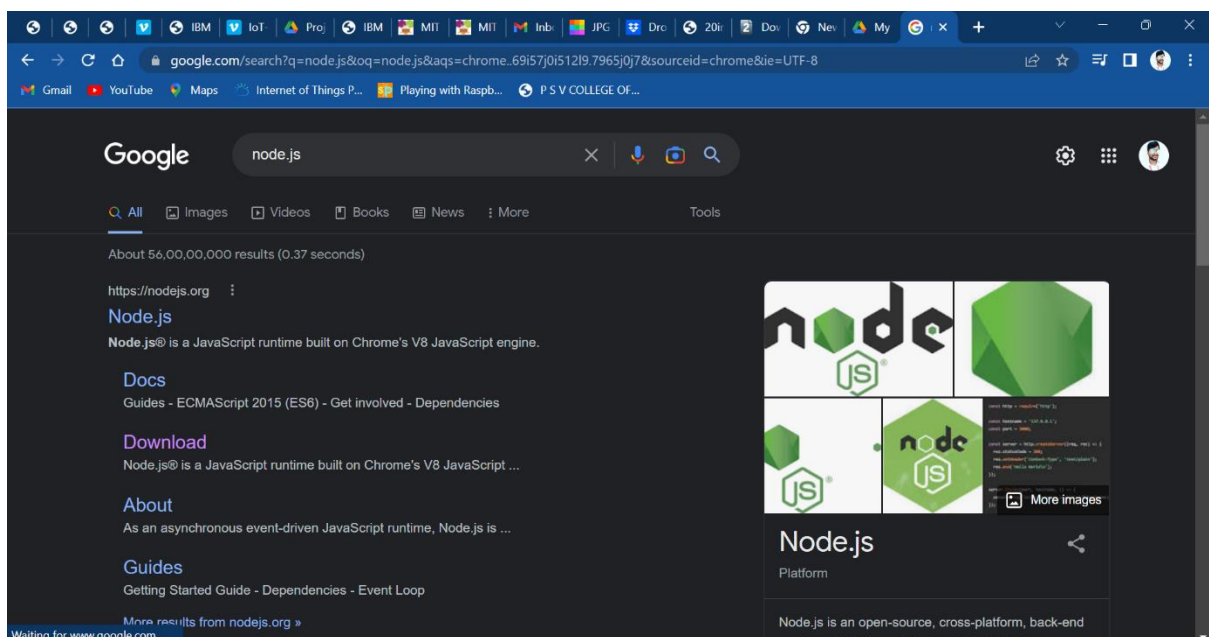


**Step1:** go to nodejs website and download .msi file in downloads page.

**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	<b>64-bit</b>
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>


nodejs.org/en/download/


download the Node.js source code or a pre-built installer for your platform, and start developing today.

**Recommended**

**Current**

  
**Windows Installer**  
node-v18.12.0-x64.msi


  
**macOS Installer**  
node-v18.12.0.pkg

  
**Source Code**  
node-v18.12.0.tar.gz

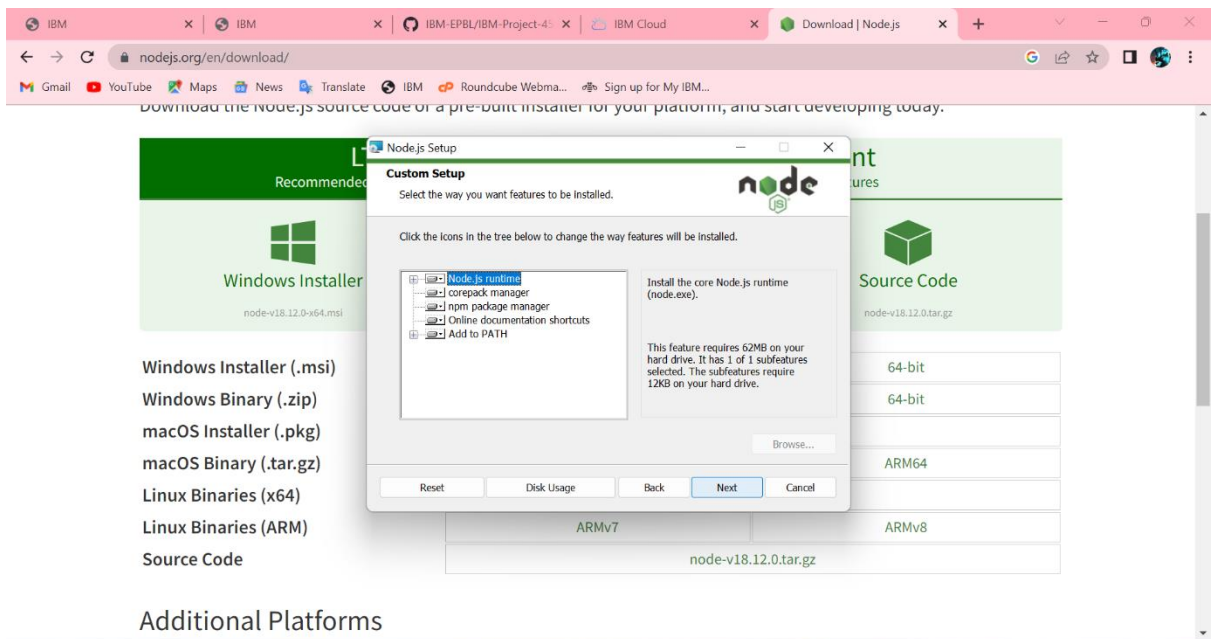
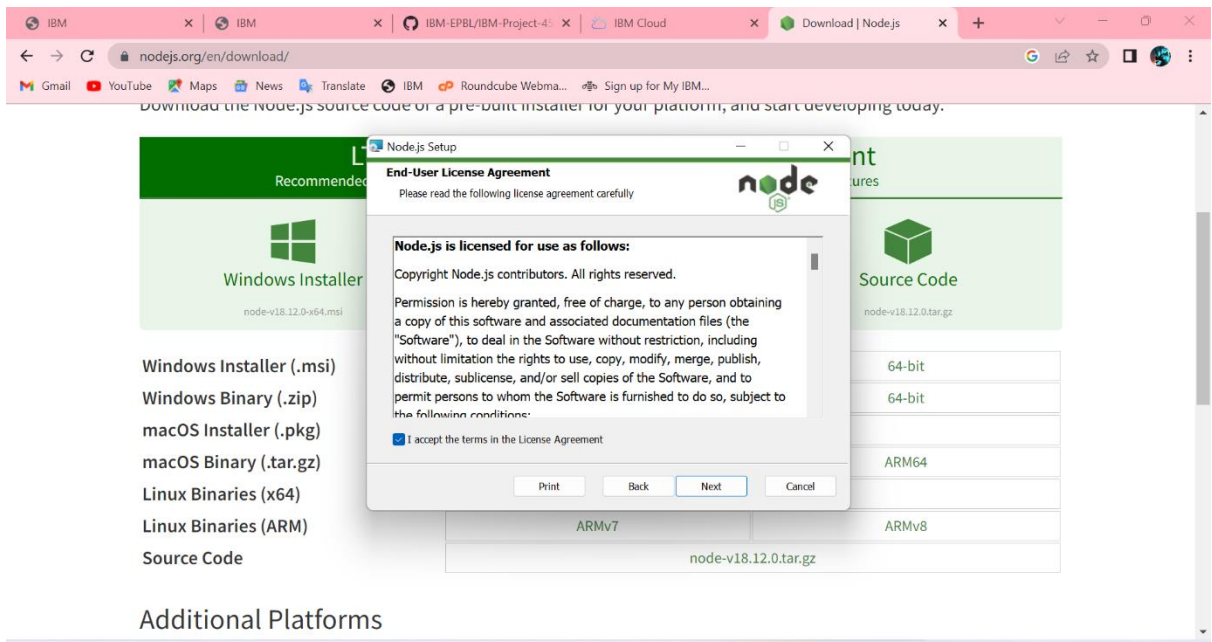
**Windows Installer (.msi)**  
**Windows Binary (.zip)**  
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**macOS Binary (.tar.gz)**  
**Linux Binaries (x64)**  
**Linux Binaries (ARM)**  
**Source Code**

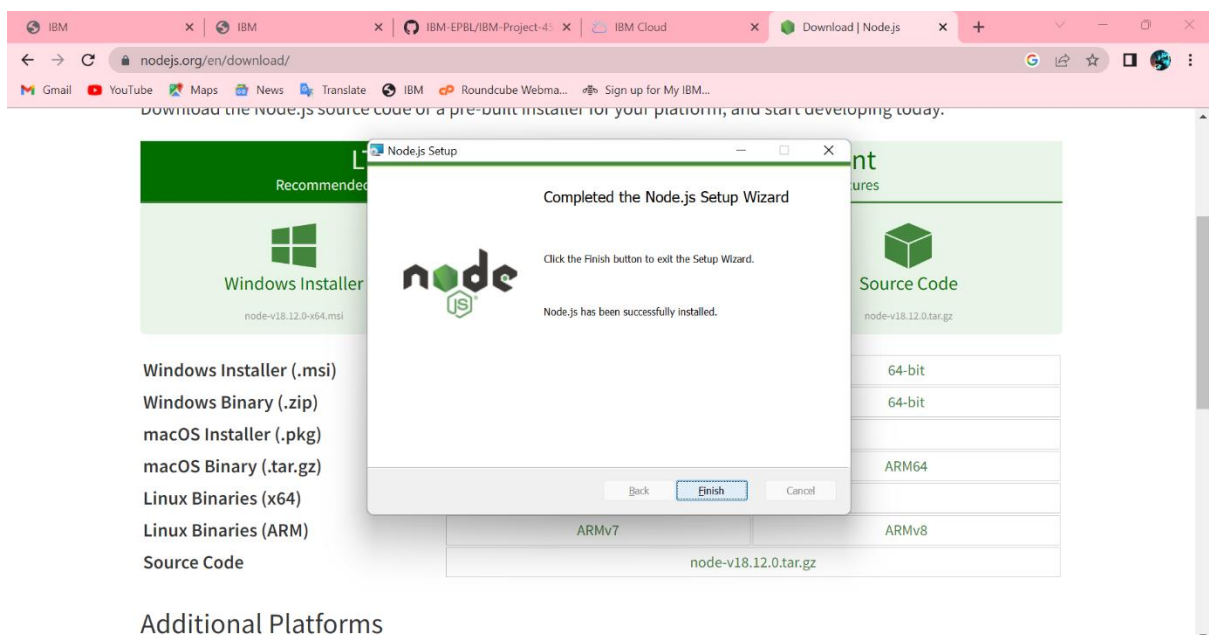
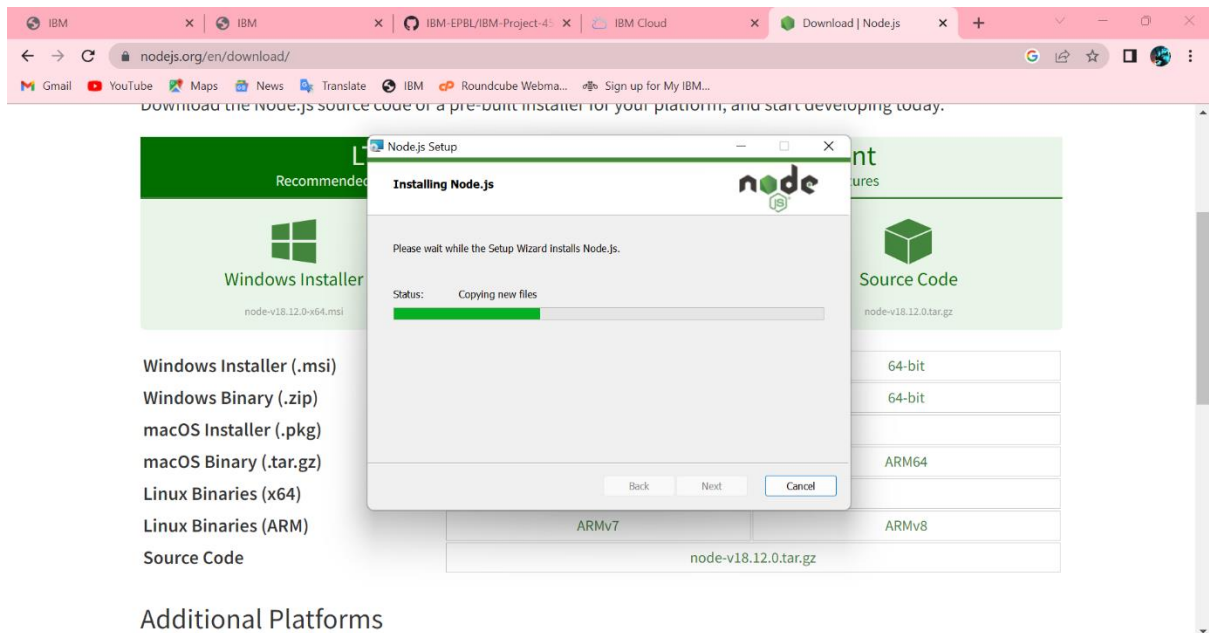
64-bit	64-bit
ARM64	
ARMv7	ARMv8
node-v18.12.0.tar.gz	

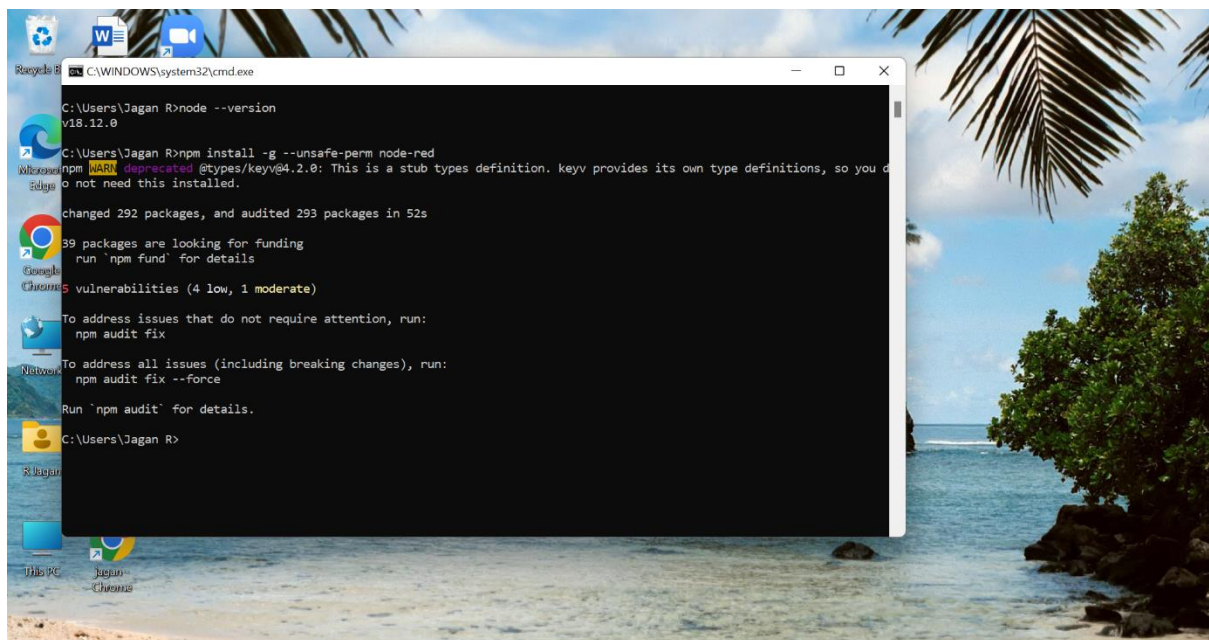
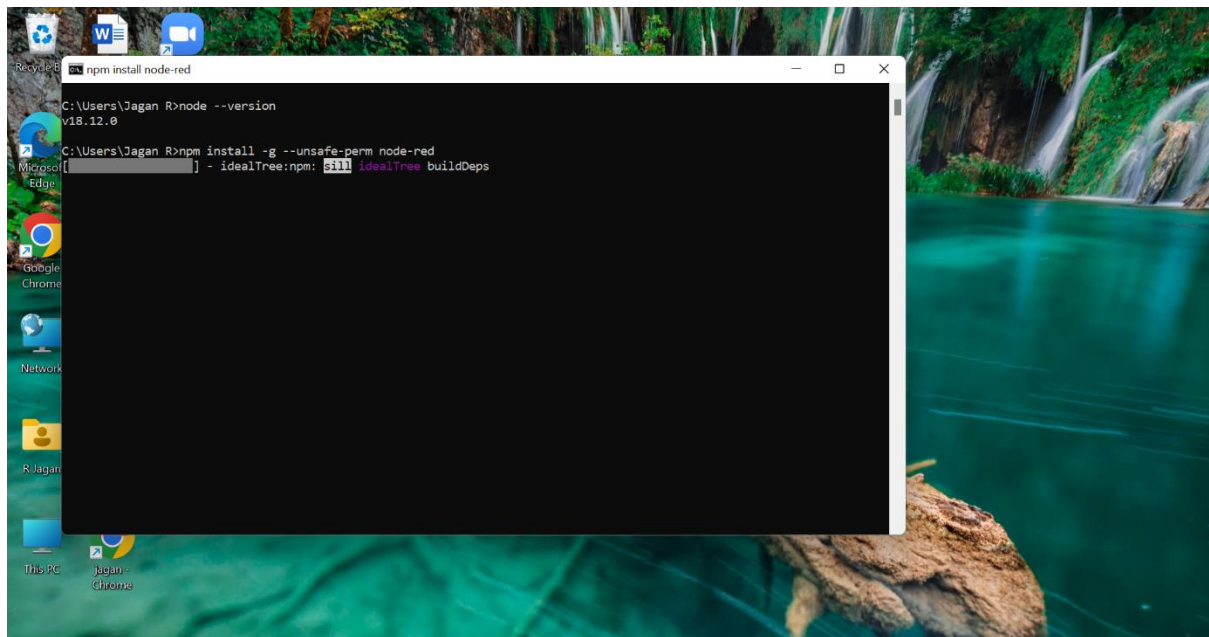
**Node.js Setup**

Welcome to the Node.js Setup Wizard  
  
The Setup Wizard will install Node.js on your computer.  
Back Next Cancel

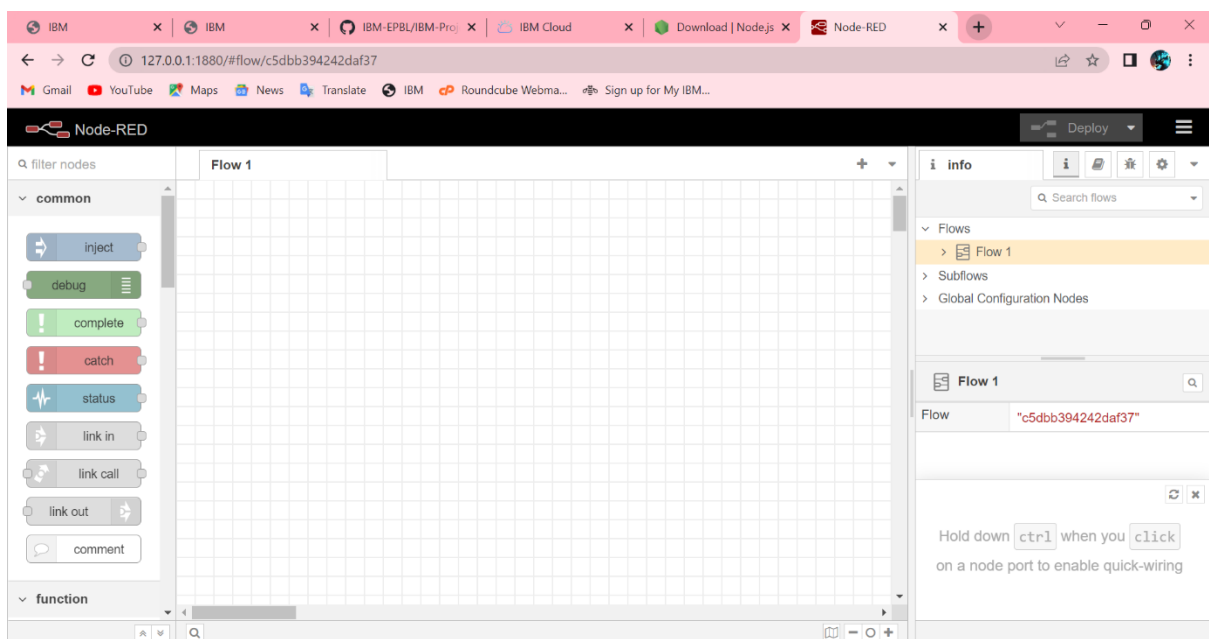
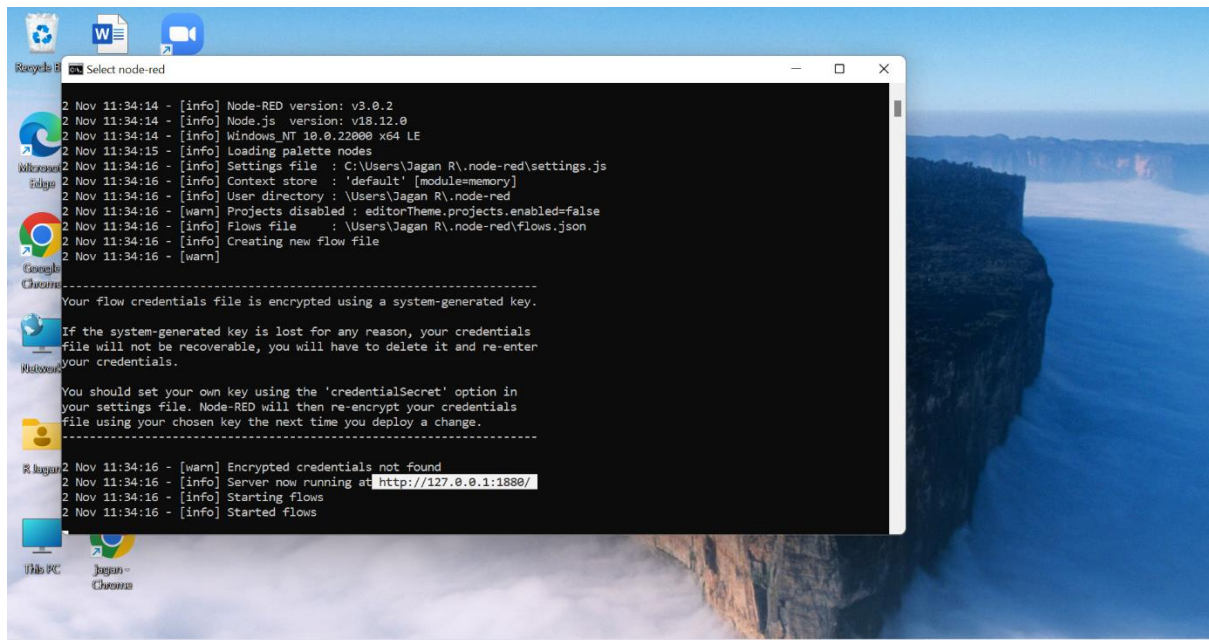
node-v18.12.0-x64.msi Show all

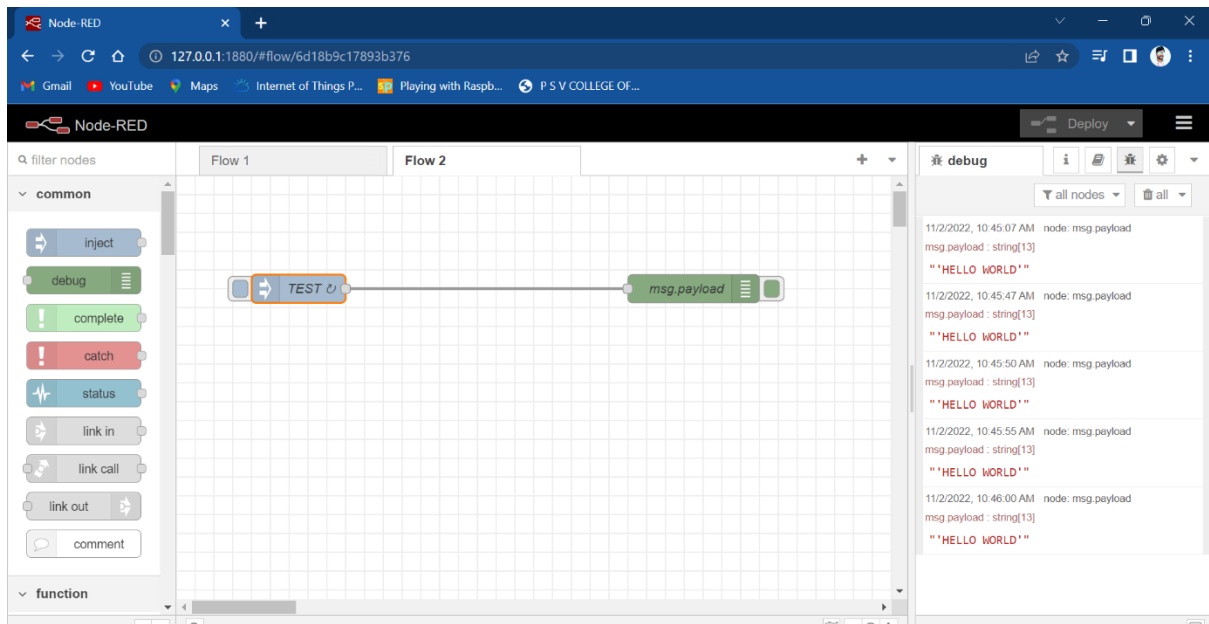












**Thus we created NODE-RED Service.**