**Lab Task 1**
**Ionic Framework: Installation & Setup**

**Objective:**
- Install Ionic Framework and other software related
- Setup and configuration

**Software Needed:**
1. You need to download the following software:
    a. Node js (Node.js is designed to build scalable network applications. It is an open source server environment.). Download at link https://nodejs.org/en/
    b. Visual studio code (Microsoft IDE and is a powerful source code editor which runs on your desktop and is available for Windows, macOS and Linux). Download at link https://code.visualstudio.com/. Extension added in VS Code: Ionic Support Extension (Ionic Snippets -fivethree)

**Node JS Installation Step:**
1. Download Node JS at https://nodejs.org/download/ (choose LTS version when downloading)
2. Run and complete the installation wizard
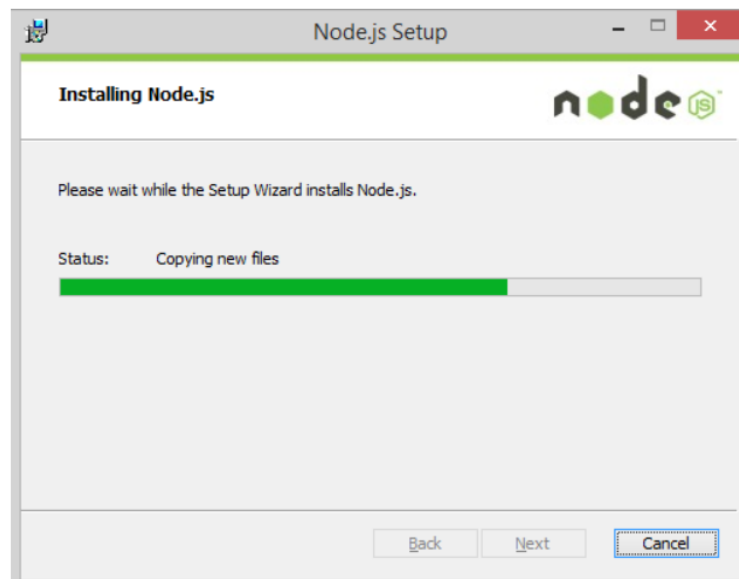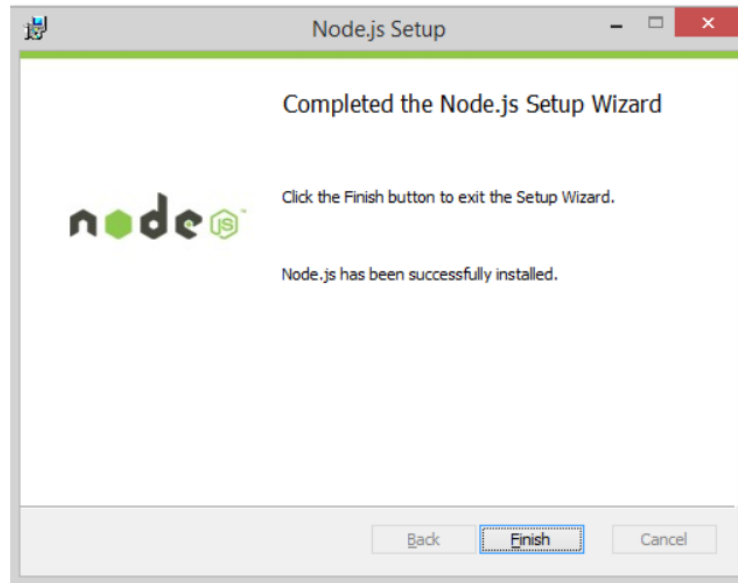
3. Open powershell (admin) or command prompt (admin). Then check your node version by writing this command. If the version has appear, it means that you have successfully download node js.

**node –v**

4. Next check version for node package manager (npm) using this command. Node package manager (npm) is the package manager for the Node JavaScript platform.

**npm -v**



Note: The version shown on your computer may be different than what you see on the image above.
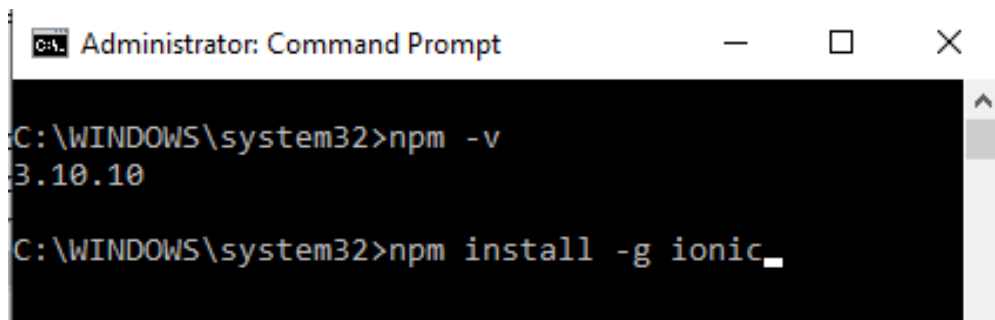
**Ionic Installation Step:**
1. Next you can download ionic using command prompt.
2. Open powershell (admin) or command prompt (admin).
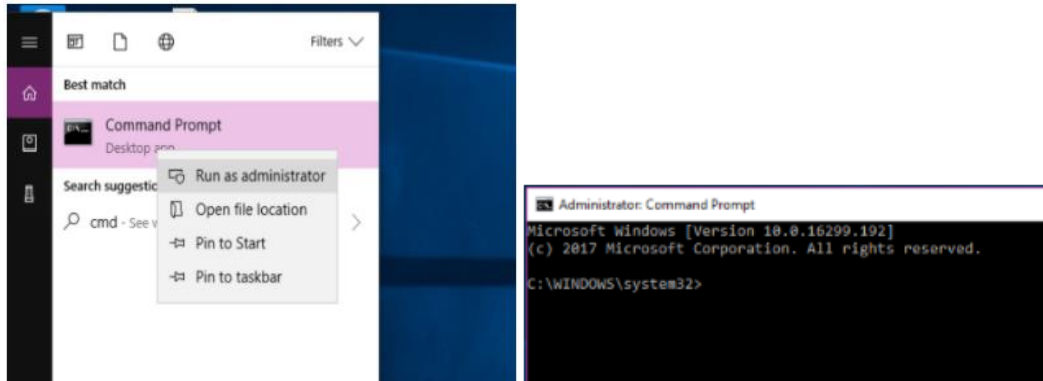


3. Next, you can install ionic using this command.

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**npm install –g ionic**

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4. Now check the ionic version by using this command (make sure the version is 5 or above).

<div align="center">

**ionic –v**

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5. Then, install cordova by using this command.

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**npm install -g cordova**

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6. Now check the cordova version by using this command.

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**cordova –v**

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**Troubleshoot:**
1. If you having any problems while using the software you can uninstall the software using this command.

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**npm uninstall cordova ionic**

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2. It is better to clear cache before install the software back using this command.

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**npm clear cache -f**

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