

NPM(Node Package Manager)

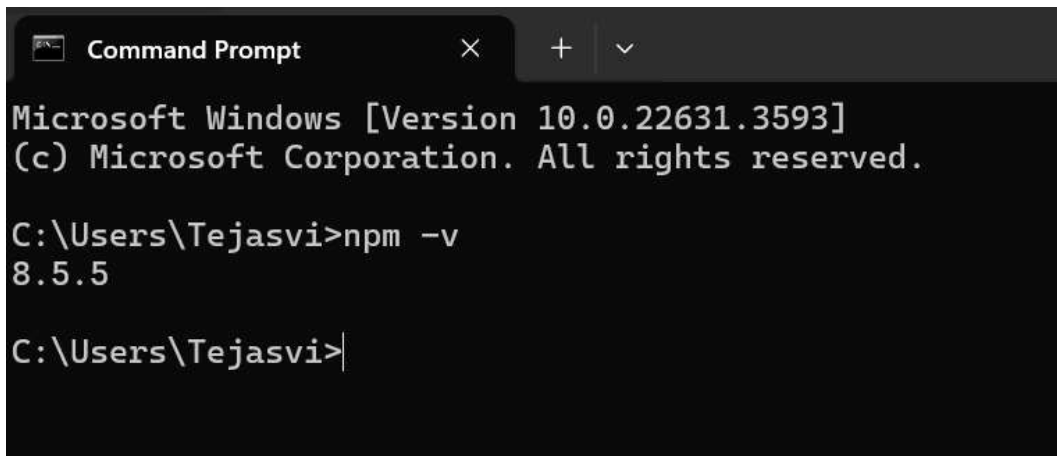
Npm (Node Package Manager) is a package manager for JavaScript, primarily used for managing dependencies in Node.js projects. It allows developers to install, share, and manage libraries and tools, simplifying the development workflow.

-What is Package manager?

-It is a software tool used by the developers in order to install, update and delete the libraries from the project.

To install npm and check for the version

Npm -v



```
Microsoft Windows [Version 10.0.22631.3593]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Tejasvi>npm -v
8.5.5

C:\Users\Tejasvi>
```

We can install any packages in two ways

- 1.**Locally**-It can be accessible from only that project folder.
- 2.**Globally**-It can be accessible from anywhere.

Steps-

1.Initializing a Project:

npm init

It will ask for a set of instruction when we give this command after setting of values it is initialized.

```
C:\Users\Tejasvi\Desktop\nokia>npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.
```

See `npm help init` for definitive documentation on these fields and exactly what they do.

Use `npm install <pkg>` afterwards to install a package and save it as a dependency in the package.json file.

Press ^C at any time to quit.

package name: (nokia) demo

version: (1.0.0)

description: "trying demo package"

entry point: (index.js)

test command:

git repository: (https://github.com/SuduguTejasvi/demo_repository.git)

keywords:

author:

license: (ISC)

About to write to C:\Users\Tejasvi\Desktop\nokia\package.json:

```
{
  "name": "demo",
  "version": "1.0.0",
```

```
{
  "name": "demo",
  "version": "1.0.0",
  "description": "\"trying demo package\"",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "repository": {
    "type": "git",
    "url": "git+https://github.com/SuduguTejasvi/demo_repository.git"
  },
  "author": "",
  "license": "ISC",
  "bugs": {
    "url": "https://github.com/SuduguTejasvi/demo_repository/issues"
  },
  "homepage": "https://github.com/SuduguTejasvi/demo_repository#readme"
}
```

Is this OK? (yes) yes

Otherwise we can use `npm init -y` to automatically accept the default settings and create a `package.json` file..

Installing Packages:

Install a package and add it to the dependencies section of `package.json`.

```
npm install package-name
```

Uninstalling Packages:

Uninstall a package and remove it from dependencies

```
npm uninstall package-name
```

Updating Packages:

Update a specific package.

```
npm update package-name  
npm update package-name@latest  
npm update package-name@latest -g  
npm update package-name@version -g  
npm update package-name@version
```

Listing Installed Packages:

List all installed packages and their dependencies.

```
npm list
```

The changes are reflected in Package.json file

Package.json

```
package.json > ...
1  {
2    "name": "demo",
3    "version": "1.0.0",
4    "description": "\"trying demo package\"",
5    "main": "index.js",
6    "scripts": {
7      "test": "echo \"Error: no test specified\" && exit 1"
8    },
9    "repository": {
10     "type": "git",
11     "url": "git+https://github.com/SuduguTejasvi/demo_repository.git"
12   },
13   "author": "",
14   "license": "ISC",
15   "bugs": {
16     "url": "https://github.com/SuduguTejasvi/demo_repository/issues"
17   },
18   "homepage": "https://github.com/SuduguTejasvi/demo_repository#readme"
19 }
20
```