

Assignment -1

NPM Registration and Publishing

1. Install and check version for Node

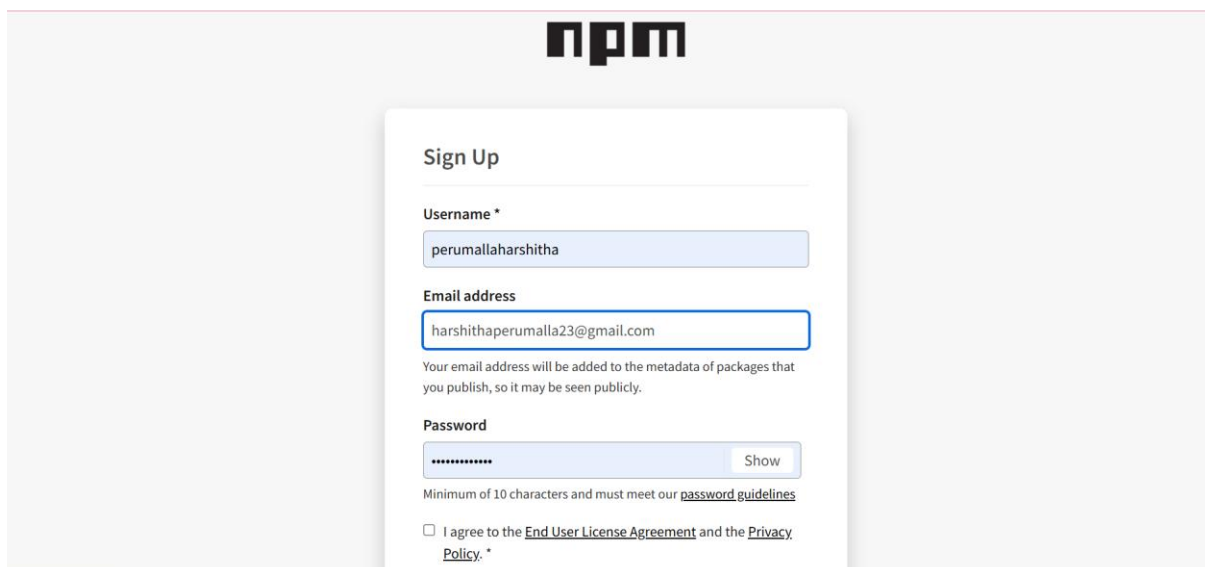
```
C:\Users\harsh>node -v  
v22.12.0
```

2. Install and check version for NPM

```
C:\Users\harsh>npm -v  
10.9.0
```

3. Register an NPM Account

1. Open a browser and go to npmjs.com.
2. Register for an npm account by providing a username, email, and password.



The screenshot shows the NPM Sign Up form. At the top is the NPM logo. Below it is a white box with the title "Sign Up". The form contains three input fields: "Username *" with the value "perumallaharshitha", "Email address" with the value "harshithaperumalla23@gmail.com", and "Password" with a masked value "*****" and a "Show" button. Below the password field is a note: "Your email address will be added to the metadata of packages that you publish, so it may be seen publicly." and a requirement: "Minimum of 10 characters and must meet our [password guidelines](#)". At the bottom is a checkbox labeled "I agree to the [End User License Agreement](#) and the [Privacy Policy](#)."

4. Initialize a Git Repository

1. Create a folder for the package in Git to maintain version control.
2. Open your terminal or command prompt and run the following

```
C:\Users\harsh>git init
Initialized empty Git repository in C:/Users/harsh/.git/

C:\Users\harsh>mkdir package

C:\Users\harsh>cd package

C:\Users\harsh\package>|
```

5. Create a New JavaScript File

1. Open Visual Studio and create a new JavaScript file named `index.js` in your `package_example` folder.
2. Add the following content in `index.js`:

```
node_modules > 22e5 > JS index.js
1 console.log("Hi there");
```

3. Save the file

6. Run the Script with Node

1. Open a terminal in the project folder and run:

```
PS D:\Projects\NPM> cd node_modules
PS D:\Projects\NPM\node_modules> cd 225e5
PS D:\Projects\NPM\node_modules\225e5> node index.js
Hello
PS D:\Projects\NPM\node_modules\225e5> |
```

7. Initialize NPM Package

1. In your terminal, run
`npm init`
2. You'll be prompted to enter information for your `package.json` file:
 - a. **name**: A unique name for your package (lowercase, no spaces).
 - b. **version**: Starting at 1.0.0.
 - c. **description**: A brief description of your package.
 - d. **entry point**: Set to `index.js` by default.
 - e. **test command**: Leave it blank or set it to a custom test command.
 - f. **git repository**: Your GitHub repository URL (optional).
 - g. **keywords**: List relevant keywords.
 - h. **author**: Your name.
 - i. **license**: You can use ISC or any other license.

```

Command Prompt
C:\Users\harsh\package>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: (package) npm_package_225e5
version: (1.0.0)
description: sample package
entry point: (index.js)
test command:
git repository: https://github.com/perumallaharshitha/package.git
keywords:
author: Harshitha
license: (ISC)
About to write to C:\Users\harsh\package\package.json:

{
  "name": "npm_package_225e5",
  "version": "1.0.0",
  "description": "sample package",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "repository": {
    "type": "git",
    "url": "https://github.com/perumallaharshitha/package.git"
  },
  "author": "Harshitha",
  "license": "ISC",
  "bugs": {
    "url": "https://github.com/perumallaharshitha/package/issues"
  },
  "homepage": "https://github.com/perumallaharshitha/package#readme"
}

Is this OK? (yes) yes

```

8. Log in to NPM

```

C:\Users\harsh>npm login
npm notice Log in on https://registry.npmjs.org/
Login at:
https://www.npmjs.com/login?next=/login/cli/7ef72a91-7bf0-4fef-80ce-45d08eebf520
Press ENTER to open in the browser...

```

9. Verify Logged-In User

1. To verify that you're logged in, run : npm whoami

10. Publish the Package to npm

1. Once you're ready to publish, run: npm publish

```

C:\Users\harsh\package>npm whoami
perumallaharshitha

C:\Users\harsh\package>npm publish
npm notice
npm notice package: e5_npm_package@1.0.0
npm notice Tarball Contents
npm notice 495B package.json
npm notice Tarball Details
npm notice name: e5_npm_package
npm notice version: 1.0.0
npm notice filename: e5_npm_package-1.0.0.tgz
npm notice package size: 335 B
npm notice unpacked size: 495 B
npm notice shasum: 8646335529e8a257d95784eb38a95749971fac33
npm notice integrity: sha512-boeb3/CJ9Le00[...]PZvd4mY1g9tKw==
npm notice total files: 1
npm notice Publishing to https://registry.npmjs.org/ with tag latest and default access
+ e5_npm_package@1.0.0

```

The screenshot shows the npm package page for '22e5'. The package is version 1.0.0, published a month ago, and is public. It has 1 dependency, 0 dependents, and 1 version. The package size is 335 B, and the unpacked size is 495 B. The shasum is 8646335529e8a257d95784eb38a95749971fac33, and the integrity is sha512-boeb3/CJ9Le00[...]PZvd4mY1g9tKw==. The package is published to https://registry.npmjs.org/ with tag latest and default access. The page also shows a 'Readme' button, a 'Code' button, and a 'Settings' button. The 'Keywords' section is empty. The 'Install' section shows the command 'npm i 22e5'. The 'Weekly Downloads' section shows 7 downloads. The 'Version' section shows 1.0.0. The 'License' section shows ISC. The 'Unpacked Size' section shows 272 B. The 'Total Files' section shows 1. The 'Last publish' section shows a month ago.

Git and Version Control Steps

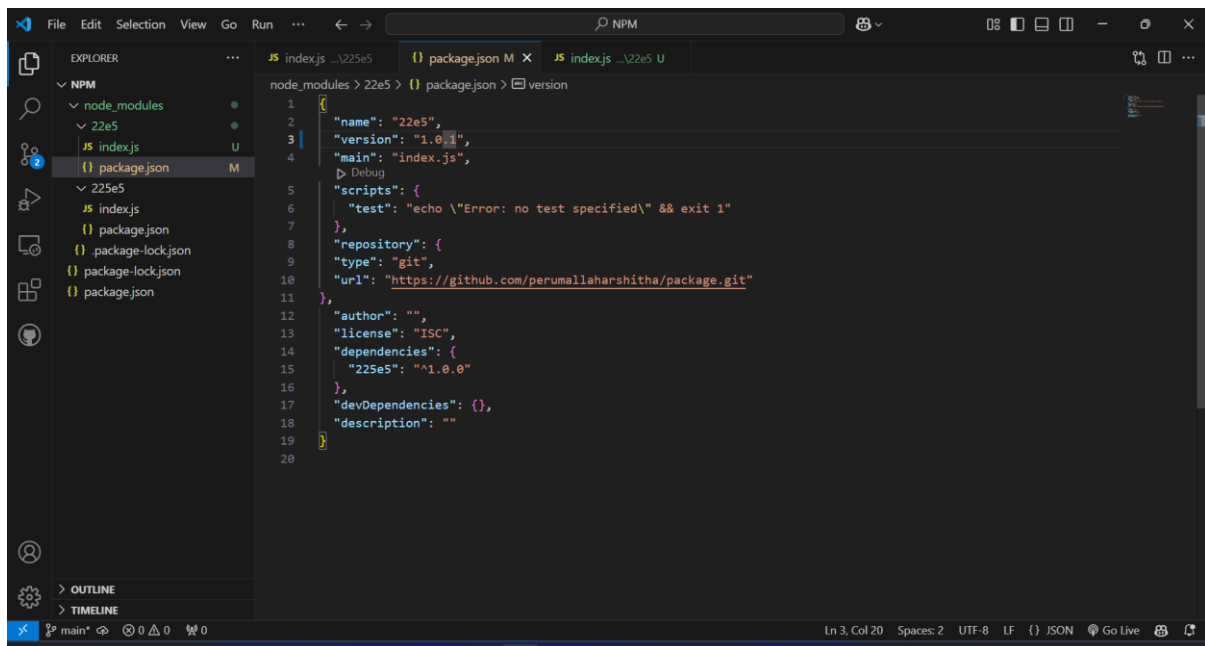
11. Add Your Code to Git Repository:

1. After initializing your Git repo, add all files to Git
2. Link your local repo to a remote GitHub repo (create one on GitHub first)

The screenshot shows the GitHub repository page for 'package'. The repository is owned by 'perumallaharshitha' and is public. It has 1 branch (main) and 0 tags. The repository is empty, with a 'README' button and a 'Add a README' button. The 'About' section shows 'No description, website, or topics provided.' The 'Activity' section shows 0 stars, 1 watching, and 0 forks. The 'Releases' section shows 'No releases published' and a 'Create a new release' button. The 'Packages' section is empty.

12. Update Package Version:

- If you need to update the package (e.g., fix bugs or add new features), you should update the version number following semantic versioning:
 - Major:** For breaking changes.
 - Minor:** For new features that are backward compatible.
 - Patch:** For backward-compatible bug fixes.



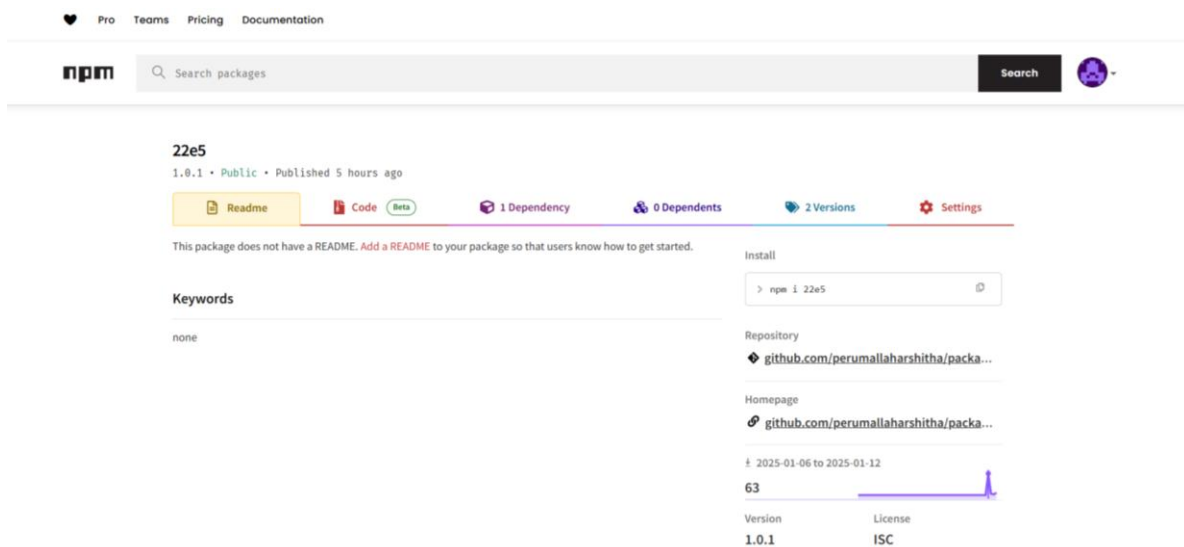
```

1  {
2    "name": "22e5",
3    "version": "1.0.1",
4    "main": "index.js",
5    "scripts": {
6      "test": "echo \"Error: no test specified\" && exit 1"
7    },
8    "repository": {
9      "type": "git",
10     "url": "https://github.com/perumallaharshitha/package.git"
11   },
12   "author": "",
13   "license": "ISC",
14   "dependencies": {
15     "225e5": "^1.0.0"
16   },
17   "devDependencies": {},
18   "description": ""
19 }
20

```

13. Publish Updated Version to npm:

- Once the version is updated, publish the new version to npm again



22e5
1.0.1 • Public • Published 5 hours ago

Readme Code Beta 1 Dependency 0 Dependents 2 Versions Settings

This package does not have a README. Add a README to your package so that users know how to get started.

Keywords
none

Install

```
> npm i 22e5
```

Repository
[github.com/perumallaharshitha/packa...](https://github.com/perumallaharshitha/package.git)

Homepage
github.com/perumallaharshitha/packa...

2025-01-06 to 2025-01-12

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Version	License
1.0.1	ISC