# Assignment-2

1. What is NPM?

Node Package Manager it is a package manager for java script. It helps developers to install, manage and shares the code for application.

1. What is parcel/webpack? Why do we need it ?

Parcel and webpack are both that bundles a web applications. Parcel automatically tracks all of the files, configurations and dev dependencies where as webpack gathers all your dependencies which includes not just code and generate a dependency graph.

1. What is parcel-cache?

Parcel cache is used by parcel to reduce the building time it stores information about your project when parcel builds it so that when it rebuilds it doesn’t have to re-parse and re-analyze everything from scratch.

4)what is npx?

Npx stands for node package execute it is simply an npm package runner it allows developers to execute any java script package available on the node package manager.

5)what is difference between dependencies vs dev dependencies?

**Dependencies:** A Dependency is a library that a project needs to function effectively. Packages that are required for an application to run in production.

**Dev Dependencies:**dev Dependencies are the packages a developer needs during development. packages that are only needed for development and testing and are not required in production.

6)what is tree shaking?

Tree shaking can happen that we add code to our bundle that isn’t used anywhere in our application. The process of eliminating dead code before adding it to our bundle.

7) what is hot module replacement?

Hot module replacement exchanges, adds, or removes modules while an application is running without a full reload.

8)List down your favorite 5 superpowers of parcel and describe any 3 of them in your own words?

1. Automatic optimization: parcel automatically optimizes your code for production including minification, compression, and tree shaking.

2. code generation: parcel automatically generates code for you

3. Image optimization: parcel automatically optimizes images for production including compression and resizing. This reduces the size of the image.

9)what is .gitignore ?what should we add and not add into it?

The .gitignore file is a text file that tells git which files or folders to ignore in a project

10)what is the difference between package.json and package-lock.json?

package.json: it shows all the package and their versions being used in the project

package-lock.json: it shows all the dependencies with the exact versions.

11) Why should I not modify package-lock.json?

To ensure consistency and reproductvity across different environments. Both files should be commited to version control and developers should be careful not to modify the package-lock.json

12) what is node\_modules? Is it a good idea to push that on git?

node\_modules are one of the imp directories where all the dependencies packages are stored and that are use to build and run the react project.

13)what is the dist folder

The dist stands for distributable folder that contains the minimized version of the source code.

14)what is browserlists read about dif bundlers :vite, webpack, parcel?

Since different browsers supports ECMA scripts developers need to set the correct browserslist .it can specify which browser your web application can run it.

**Git repository link: https://github.com/Gompa-mounica/React-assignment-2**