**Assignment 2**

1)What is NPM

NPM Does not stands for Node Package Manager. It’s is managing the packages of Node. It is a library and registry for JavaScript software packages. NPM also has command line tools to help you to install packages and manage their dependencies

2)What is parcel/webpack ? why do we need it ?

Parcel/ Webpack is a bundler. it’s take your project to massive production ready Application Zero configuration Web Application Bundler.

Parcel has many features that helps to minify , optimized, compressed webApp and make it production ready app.

3)What is parcel cache?

It’s a cache folder. store information about your project when parcel build it. So that when it rebuild it, doesn’t have re-phase and re- analyse everything from scratch.it is the key reason why parcel can be so fast in development mode.

4) List down your favourite 5 superpowers of parcel and describe any 3 of them in your own words

Hot Reloading (HOT MODULE REPLACEMENT), Dev Server , Diagnostic, Native performance ,lazy dev build , Tree shaking , minification , optimization , compression , code splitting , content hashing, Transpiration, Workers , Libraries

1. Tree Shaking: Remove unused code from import files
2. HRM: it stands for Hot Module Replacement. update virtual Dom without reload the page give the result
3. Diagnostic: Diagnose error in colourful format showing syntax error Aswell

5) What is NPX?

NPX is an NPM package used to execute any package on the npm registry directly without installing

6) What is deference between dev- dependencies and dependencies:

Dependencies is normal dependencies which are used for production ready app  
Dev dependencies are used for development App

Command : dep : npm insall {package name}  
dev-dep : npm install -D {package name}

7) What is Tree Shaking ?

Remove unused code from import files

8)What is HMR ?

virtual Dom is updated update page without reload page.

9) What is ‘.gitignore’? What Should we add and not add into it?

a plain text file that contains a list of all the specified files and folders from the project that Git should ignore and not track.  
Which files and folders are used for app development for example node\_module folder but we don’t need to push it to git

10) What is the difference between package.json and packagelock.json

Package. Json **configuration file for NPM** it contains basic information about the project. It records important metadata about the project. It contains information such as name dependencies, description, author, script

Packagelock.json it describe the exact tree that was generated to allow a subsequent installs to have the identical tree . it allow future devs to install same dependencies in the project . It contains name dependencies and locked version of the project.

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

PackageLock.json has exact version of package which are installed in project it’s allow future devs to install same dependencies in the project

12) What is the node\_module ? is it a good idea to push that on git ?

Node\_module folder create when we install npm to our project. In that folder has all packages and dependencies and their package.json and packageLock.json

It is collection of dependencies

Whatever you regenerate don’t put on server, we have package.json file we can regenerate node\_modules  
No, we are not push node\_module to git  
  
Transitive dependencies: installed package has their dependencies , dependencies has their own dependencies it’s called transitive dependencies

13) What is ‘Dist’ folder  
Dist folder contains dev build files, when we execute dev files files fetch from dist folder

14) What is ‘browser list ’ Read about different bundlers vite parcel webpack  
A page to display compatible browsers from **browserslist** string.