**Igniting our app**

**1)What is `npm`?**

npm is not a full form of Node Package Manager. But, It is used to manage all the package what we need in the project.

**2) What is `Parcel/Webpack`? Why do we need it?**

Parcel/Webpack is bundler file or package or dependency.

In projects, the most important package or dependencies is Bundler. Bundler used to bundle all the codes we written, compress the code, optimize the code, image optimization, simply what are things we need for production to push our code, all the required things that bundler can do.

**3) What is `.parcel-cache`?**

Every we save our code file( ctrl + s), parcel build for code every time. But the time it taken to build our app every time is less than a previous time it take to build. This is happened because of .parcel-cache.

**4) What is `npx` ?**

npx- is a command used to **execute** the packages.

npm- is a command used to **install** the packages.

**5) What is difference between `dependencies` vs `devDependencies` ?**

dependencies – which is used for production stage.

devDependencies – which is used for normal development stage and for testing.

**6)What is Tree Shaking?**

Tree shaking is one of algorithm name. This algorithm automatically remove the packages or dependcies which we didn’t use for long time.

**7) What is Hot Module Replacement?**

Hot Module Replacement is improves the development experience. It automatically update the whole modules at runtime. We need not refresh the whole page again and again when we make any changes in our code. It uses file watching algorithm. File watch algorithm written in c++.

**8) List down your favourite 5 superpowers of Parcel and describe any 3 of them in your own words:**

1)Browserslist 4)Hot module replacement ( HMR )

2)Tree shaking 5)Create a server.

3)Diagnostic

**Diagnostic :** It shows the error or warning in console exactly where the error will happen with actual code.

**Browserslist:**  It is one dependency or package which is used to developer to decide in which browsers the app should run. We can specify the version , specify the browser to run our app.

**Create a server:** It create a server for us. Simple words, It gives a place for our website in server. (localhost:1234)

**9) What is `.gitignore`? What should we add and not add into it?**

The files which are have the ability to recreate or regenerate we cannot push to github. We achieve that by .gitignore file. If we enter the file name inside the .gitignore, it automatically ignore those files.

That recreating or regenerating file size is so big and when push the essential file(package.json and package-lock.json) to github, while the code executes the server automatically executes that file.

**10) What is the difference between `package.json` and `package-lock.json`?**

**package.json** – is file which is used to configure the npm to our local system and it take care of all version of the packages.

**package-lock.json** – this file keeps the record of exact version of all packages or dependcies. This file generated while npm is installed. It ensures that, the same version is used in different environment like development and production side.

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

The main purpose of package-lock.json is to ensure the same version used in another environment also. If we change anything in that file, in different environment our app couldn’t run properly.

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

Node modules are like the database which contain the all dependencies or packages we want . e.g . Parcel’s packages or dependencies. No, it not good idea to push that on git.

**13) What is the `dist` folder?**

When we execute the package by `npx parcel index.html` it build the our app. when building it create different files, the files are helpful for to show our contents, images etc in website. That files are need one folder. That folder name is `dist`. Note: our content doesn’t shown from our actual index.html file. It shown form `dist` folder.

**14) What is `browserlists` ?**

Browserlists is dependency or package. It is helpful for to make our app specifically run on which browser and also which version our app must run.