**INCEPTION EPISODE - 1**

1. VS Code use Emmet is generate some code for developers.
2. React Uses two CDN links so if we links both two cdn links in our project that we got the superpower of react so we need to put two cdn first is react.development it is the core react and second is react-dom.development and this is the bridge between the react and browser
3. React.createElement(para1, para2, para3) the first one is take a tag of html second is take the attributes like class name, id extras. and the third one is going to be a content or next nested html tag or it would be React.Element like nested stuff
4. But we creating a root and rendring inside the dom it is the job of React.Dom ReactDOM.createRoot(document.getElementById(“root”));
5. Most Constly or Expensive Oprations inside Browser page is when web page intractive each other or chages then the dom need to be manipulated suppose you hit or click the button then model appears so this is the intractivity.
6. When we write the React.createElement() it always create the object it’s not create the html

Igniting Our App

1. When we create our react app using **npx-create-react-app** this basically create the production ready app that have lot’s of configuration file
2. Npm is everything but not node package manager. Npm is manages the packages but it’s not standards for node package manager. Npm is the biggest packages managers.
3. Package.json is the configuration for npm
4. **Bundler**: when we have normal html, css and js file our whole code needs to be bundle together, compressed, clean , minified cached bundler helps us to do these things **webpacl**, **parcel** , **vite** bundlers basically bundle our app or packages our app so we can shift our application to the production.
5. There are two types of dependencis first one is dev and normal dependencis
6. "parcel": "^2.15.4" here the ^ is known as caret
7. The caret basically automatically fetches the current version of the package. Caret upgrade the minor ve (an attribute not part of the primary rsion of the package and **~ tilde** is upgraded the major version
8. Package-lock.json keep the excet version of the package that installed in the project
9. Node modules is like a database that contains the dependency that also contains it’s internal packages dependency that node\_modules like our project dependency have parcel now parcel as a project have it’s own dependency. And those dependency have it’s own dependency and those have it’s own this is known as transitive dependency
10. If we have package and package-lock.json we can re-create node\_modules
11. If we want to install something we need to use npm but if we want to execute something then we should run **npx** like **npx parcel index.html**
12. **Parcel** is doing lot’s of things like **Dev Build, Local Server, HMR-Hot Module Replacement, File watching algorithm** and it is written in C++, Caching – Faster Builds, Image Optimization, Minification, Bundling, Compress the file like removed the white space, Code Splitting, Differential Bundling-> means to support older browsers, parcel is giving us Diagnostic it also Error Handling, HTTPS, Tree Shaking -> remove unused code, Different bundle dev and Prod bundles