Chapter 01 - Inception

Link to my Code

Theory -

● What is Emmet?  
Answer: Emmet is like a plugin for Text Editor used for filling code using suggestions and auto complete feature, used in Vcommander makes life very easy.

● Difference between a Library and Framework?

Answer: A library is a set a code written for assistance whereas a framework is a bundle of libraries written for assistance.

Inversion of control, in library we define our own control of flow, whereas in a framework it is already built in.  
Building a house is like using a library, we can have pre created doors, windows & bricks  
Buying a already build house is like using a framework.

● What is CDN? Why do we use it?

Answer: CDN is a Content delivery network, where instead of using servers at a single geographical location, distributed network of servers is used and the server which is closest to the geographical location of the user is used for transactions.  
We use it by putting aur CDN Links in the script tags of the html file  
eg: <script crossorigin src="https://unpkg.com/react@18/umd/react.development.js"></script>

<script crossorigin src="https://unpkg.com/react-dom@18/umd/react-dom.development.js"></script>

● Why is React known as React?

Answer: It is known so because, it was devoleped by Facebook engineers who wanted to develop a library to make code more responsive and highly reactive, therefore named it ‘React’.

● What is crossorigin in script tag?

Answer: A crossorigin attribute in the script tag denotes CROS operation, which is cross origin resource sharing, where a communication is established between an external domain and a server.  
This attribute comes with properties like anonymous or use-credentials.

● What is diference between React and ReactDOM

Answer: React library is used for content development whereas the ReactDOM Library is used for interacting with the content of the DOM.

● What is difference between react.development.js and react.production.js files via CDN?

Answer: React.dev.js has a lot of dev support tools which are used for analysis & debugging which are size heavy.

In the Prod environment we want our code to be minimal for performance reasons, so in React.prod.js file all of the additional size heavy tools are removed and a optimal library for prod environment is created and used.

● What is async and defer? - see my Youtube video ;)

Answer: async & defer are attributes used in the script tag.

In a HTML file with no attributes in the script tag

Order of execution is as follows:

HTML EXECTION HTML EXECUTION  
 SCRIPT FETCHING SCRIPT EXECUTION

In a HTML file with ASYNC attributes in the script tag.

Fetching happens in an async fashion, code dependencies will not work correctly.

Order of execution is as follows: (Scripts are fetches concurrently with the execution of html)

------------------------ HTML EXECTION HTML EXECUTION  
 SCRIPT FETCHING SCRIPT EXECUTION

In a HTML file with DEFER attributes in the script tag

Order of execution is as follows: (Scripts are fetches concurrently with the execution of html and executed after HTML Execution step)

Suitable for code dependencies.

------------------------ HTML EXECTION-----------   
 SCRIPT FETCHING SCRIPT EXECUTION