Chapter 01 - Inception

[Link to my Code](#)

Theory -

- **What is Emmet?**

Emmet is a shortcut tool in code editors like VS Code. It lets you write HTML and CSS super fast using short syntax.
Example: `div.container>ul>li*3` → expands to a full HTML structure instantly.

- **Difference between a Library and Framework?**
- **Library** = You call the code when you need it. (You're in control)
e.g., React

- **Framework** = It calls your code. (It's in control)
e.g., Angular

- **What is CDN? Why do we use it?**
  CDN (Content Delivery Network) hosts files like JavaScript libraries online.
  We use it to:
- Load libraries faster (from nearby servers).
- Avoid downloading/installing files locally.

- **Why is React known as React?**
- React got its name because it **reacts** to data changes—updating the UI automatically when data updates.

- **What is crossorigin in script tag?**

  It tells the browser how to handle scripts from other domains:
- Enables better error logging.
- Helps with security rules (CORS).

- **What is diference between React and ReactDOM**
- • **React** = Core library to create UI components.
- • **ReactDOM** = Connects React to the real DOM in the browser.
(Think of ReactDOM as the bridge)

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

  ☐ development.js: For coding/debugging (includes warnings, errors).
  ☐ production.js: Optimized for speed (no warnings, smaller size).

- **What is async and defer?**

- `async`: Loads script in background & runs it **as soon as it loads**.

- `defer`: Loads script in background & runs it **after the HTML is fully loaded**.

Coding -

- Set up all the tools in your laptop
  - VS Code
  - Chrome
  - Extensions of Chrome
- Create a new Git repo
- Build your first Hello World program using,
  - Using just HTML
  - Using JS to manipulate the DOM
  - Using React
    - use CDN Links
    - Create an Element
    - Create nested React Elements
    - Use root.render

- Push code to Github (Theory as well as code)
- Learn about Arrow Functions before the next class

References:
- https://beta.reactjs.org/apis/react/createElement
- https://www.youtube.com/watch?v=IrHmpdORLu8