

## INCEPTION ANSWERS

1) What is Emmet?

Ans- Emmet is a **plugin** for text editors that **speeds up HTML and CSS coding** by allowing you to write abbreviations that expand into full code snippets. It is commonly used in editors like VS Code, Sublime Text, and Atom.

2) Difference between library and framework

Ans- **Library:**

- A library is a collection of functions or modules that developers can call when needed.
- You control the flow of execution.
- Example: **React.js** (you use React functions as needed).

**Framework:**

- A framework provides a structure and dictates how your code should be organized.
- The framework controls the flow, and you fill in the details.
- Example: **Angular, Django, Spring** (you follow their structure).

3) What is CDN? Why do we use it?

Ans- A **CDN (Content Delivery Network)** is a network of servers distributed globally that deliver web content (like images, CSS, JavaScript, videos) **faster** by serving them from the closest server to the user.

We use it because:

- **Faster Loading Speed** – Reduces latency by serving content from nearby servers.
- **Reduced Server Load** – Distributes traffic across multiple servers.
- **Improved Availability** – Ensures content remains accessible even if one server goes down.
- **Better Security** – Protects against DDoS attacks and prevents bandwidth theft.
- **SEO Benefits** – Faster websites rank better on search engines.

4) Why is React known as React?

Ans- React is called "**React**" because it is designed to efficiently **react** to changes in data and update the UI accordingly.

**Reasons Behind the Name:**

- **Reactive UI Updates** – React automatically updates the UI when data changes.

- **Component Reactions** – React components react to state and prop changes.
- **Efficient Reconciliation** – Uses the Virtual DOM to react quickly and update only necessary parts of the page.

5) What is crossorigin in script tag?

Ans- The **corsorigin** attribute in the <script> tag is used when loading external scripts from a different origin (CORS request). It controls how browsers handle **cross-origin requests** for the script.

6) What is difference between React and ReactDOM?

Ans- **React**

- Core library for building UI components.
- Provides features like components, state, props, and hooks.
- Found in the react package.
- Used for defining logic and UI structure.
- Example: import React from 'react';

**ReactDOM**

- Handles rendering of React components into the browser DOM.
- Provides methods like ReactDOM.createRoot() and ReactDOM.render().
- Found in the react-dom package.
- Used to render UI into the actual webpage.
- Example: import ReactDOM from 'react-dom';

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

Ans- **react.development.js (Development Version)**

- **Unminified**, contains helpful warnings and error messages.
- Helps with debugging by providing **detailed error logs**.
- Slower due to additional checks and messages.
- Suitable for development environments.

**react.production.js (Production Version)**

- **Minified and optimized** for performance.
- Removes warnings and unnecessary code

- Loads faster, improving app performance.
- Recommended for production environments.

8) What is async and defer?

Ans- **async**

- Loads the script **while** the HTML is parsing.
- Executes **as soon as it's downloaded, out of order** if multiple scripts are present.
- **Pauses HTML parsing** when executing.
- Best for **independent scripts** (e.g., analytics, ads).

**defer**

- Loads the script **while** the HTML is parsing.
- Executes **after** the HTML is fully parsed, **in order**.
- HTML parsing **continues without interruption**.
- Best for **dependent scripts** (e.g., DOM manipulation, libraries).