**Chapter- 1**

**Inception**

**Theory—**

1. **What is Emmet?**

* It is the essential toolkit for web developers.
* Emmet is a free add-on for text editor.
* It allows to type shortcuts that are then expanded into full pieces of code.
* It is a set of plug-ins for text editors that allow for high speed coding and editing in HTML,XML and etc.

1. **Difference between a library and a framework?**

FRAMEWORK: It is a platform for developing software applications. The term framework can refer to a structure. It could be the structure of a system, a project, or anything else.

LIBRARY: A library in programming languages are collections of prewritten code that users can use to optimize a task.

* The goal of frameworks and libraries is the same: to expand the range of functions available to developers, optimizing their workload and reducing errors and inefficient code.
* Frameworks and libraries are blocks of code developed by third parties that help solve common problems in a particular programming language.
* The main difference between them is the use of queries---

When using a library, the programmer decides when and where to cal it.

When using a framework, the framework dictates that. It provides the basic framework and tells the programmer what is needed.

1. **What is CDN? Why do we use it?**

Content Delivery Networks are the transparent backbone of the Internet in charge of content delivery.

Whether we know it or not, every one of us interacts with CDNs on a daily basis; when reading articles on news sites, shopping online, watching youtube videos.

It refers to a geographically distributed group of servers which work together to provide fast delivery of Internet content

The main use of a CDN is to deliver content through a network of servers in a secure and efficient way.

1. **Why is React known as React?**

React is named React because of its ability to react to changes in data. When the data in a React component changes, React will automatically re-render the components so that it reflects the new data.

Design simple views for each state in your application, and React will efficiently update and render just the right components when your data changes.

1. **What is crossorigin in script tag?**

The crossorigin attribute on a <script> tag specifies that CORS(Cross-Origin Resource Sharing) is supported when loading an external script file from a third party server or domain.

Crossorigin attribute is present when a request is loaded using ‘CORS’ which is now a requirement of SRI checking when not loaded from the same origin.

1. **What is difference between React and ReactDOM.**

React is responsible for creating views and ReactDOM is responsible to actually render UI in the browser.

CDN links for---

React: <https://cdnjs.com/libraries/react>

ReactDOM: <https://cdnjs.com/libraries/react-dom>

React is a JS library for building user interfaces and ReactDOM is the JS library that allows React to interact with the DOM.

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

Development mode includes useful warnings and gives you access to tools that make development and debugging easier. Production mode minifies your code and better represents the performance your app will have on end user’s devices.

1. **What is async and defer?**

Async and defer are Boolean attribute which are used along with script tags to load the external scripts efficiently into our web page.