1. The World Wide Web is a system of linked web pages and resources accessed via the Internet using web browsers. Created by Tim Berners-Lee in 1991, it allows people to view, share, and connect information globally using links, web addresses (URLs), and protocols like HTTP.

2. The front-end of a web application is the user-facing side. It includes everything users see and interact with, like buttons, text, and images. Built with HTML, CSS, and JavaScript, it runs in the browser. The back-end is the server-side. It processes requests, manages databases, and handles logic. Built with languages like Python, Node.js, or PHP, it communicates with the front-end to send and retrieve data.

3.
   a. Request: Browser sends HTTP request to the server.
   b. Processing: Server handles logic, database, or API tasks.
   c. Response: Server sends data back to the browser.
   d. Rendering: Browser displays or updates content.

4. The MERN stack is a JavaScript-based framework for building full-stack web applications. It combines MongoDB for data storage, Express.js for server-side logic, React.js for creating user interfaces, and Node.js to execute JavaScript on the server. This allows seamless development with JavaScript across the entire application.