***Routing in React***

Question 1: What is React Router? How does it handle routing in single-page applications?

React Router is a library for handling navigation in React apps. It uses the browser's History API or hash-based URLs to render components dynamically based on the URL, enabling seamless routing in single-page applications.

Question 2: Explain the difference between Browser Router, Route, Link, and Switch components in React Router.

**Browser Router**, **Route**, **Link**, and **Switch** in React Router:

1. **Browser Router**:
   * Acts as the parent component that enables routing using the browser's History API.
   * Wraps your app to manage and synchronize the URL with the rendered components.
2. **Route**:
   * Defines a path and specifies the component to render when the URL matches the path.
   * Example: <Route path="/home" component={Home} />
3. **Link**:
   * Provides navigation without reloading the page.
   * Renders an anchor-like tag and updates the URL, triggering route changes.
   * Example: <Link to="/about">About</Link>
4. **Switch**:
   * Ensures that only the first matching <Route> is rendered.
   * Useful for avoiding multiple routes being rendered simultaneously.