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Assignment Questions 9

**Q.1** What are hooks in react? how to identify hooks?

Ans:- React Hooks are a new addition to React that allow you to use state and other React features without writing a class. Hooks are functions that you can use inside your functional components to access React features.

**Q.2** Explain useState Hook & what can you achieve with it?

Ans:- The useState hook is a React hook that allows you to manage state in a functional component. It returns an array with two values: the current state and a function to update it. The hook takes an initial state value as an argument and returns an updated state value whenever the setter function is called.

**Q.3** How to pass data from one component to another component?

Ans:- Props are the most common way to pass data between components. Props are read-only data that are passed from a parent component to a child component. To pass data as props, you need to define the data in the parent component and pass it to the child component as an attribute.

**Q.4** What is the significance of the "key" prop in React lists, and why is it important to use it correctly?

Ans:- The key prop in React lists is a unique identifier that is used to track the elements in the list. It is important to use the key prop correctly because it allows React to efficiently update the list when items are added, removed, or reordered.

**Q.5** What is the significance of using "setState" instead of modifying state directly in React?

Ans:- The setState method is a way to update the state of a React component. When you call setState, React will compare the new state to the old state and only re-render the component if the state has changed. This ensures that React can track the changes to state and re-render the component only when necessary.

**Q.6** Explain the concept of React fragments and when you should use them.

Ans:- React fragments are a way to group a list of children without adding extra nodes to the DOM. They are often used to improve the performance of React components by reducing the number of DOM nodes that need to be rendered.

**Q.7** How do you handle conditional rendering in React?

Ans:- Conditional rendering in React is a way to render different content depending on the value of a condition. This can be useful for displaying different messages, menus, or components depending on the user's state or the current state of the application.