1. **what is usestate Hook in react?**

useState is a React Hook that lets you add a [state variable](https://react.dev/learn/state-a-components-memory) to your component.

Usage :

1. Adding state to a component
2. [Updating state based on the previous state](https://react.dev/reference/react/useState#updating-state-based-on-the-previous-state)
3. **What is useEffect Hook in react?**

* [useEffect(setup, dependencies?)](https://react.dev/reference/react/useEffect#useeffect)
* useEffect is a React Hook that lets you [synchronize a component with an external system.](https://react.dev/learn/synchronizing-with-effects)

1. **When to Use the useEffect Hook?**

* **Fetching Data**: When you need to fetch data from an [API](https://www.geeksforgeeks.org/what-is-an-api/) or a server when the component mounts or when certain state variables change.
* **Subscriptions and Event Listeners**: When you need to subscribe to events, such as keyboard events, window resizing, or WebSocket messages.
* **Manual DOM Manipulation**: When you need to perform manual [DOM](https://www.geeksforgeeks.org/reactjs-virtual-dom/) manipulations, like changing the title of the page or adding/removing classes.
* **Clean-up Operations**: When you need to perform clean-up operations, like unsubscribing from event listeners or canceling asynchronous tasks when the component unmounts or when certain dependencies change.

1. **Importance of Dependencies in useEffect:**

The **dependencies array** allows you to specify which values the effect depends on. If any of these values change, the effect will be re-run.

1. **useMemo Hook in React**

**The**useMemo Hook returns a memoized value **and**prevents the application from unnecessary re-renders**.**

1. **What is React?**