* **Components (Functional & Class Components)**

Question 1: What are components in React? Explain the difference between functional components and class components.

* Functional components are JavaScript functions that return React elements.

Class components are ES6 classes that extend the React.Component class.

Function componentsUse **Hooks** for state and effects.

Class components Use this.state and lifecycle methods.

Question 2: How do you pass data to a component using props?

* In React, **props** are used to pass data from a parent component to a child component.

**Question 3: What is the role of render() in classcomponents?**

* In React class components, the **render() method** is a required lifecycle method responsible for describing what the component should display on the UI. It is called by React during the **rendering phase** and returns the JSX that represent the visual output of the component.

Props and State

Question 1: What are props in React.js? How are props different from state?

In React.js, **props** are used to pass data from a parent component to a child component.

* **Props (Properties):**
  + Props are short for "properties."
  + They are used to pass data from a parent component to a child component.
* **State:**
  + State is a local data storage specific to a component.
  + It is used to manage data that can change over the component's lifecycle.

Question 2: Explain the concept of state in React and how it is used to manage componentdata.

* In React, **state** refers to a built-in object used to manage dynamic data or information in a component that can change over time.

Question 3: Why is this.setState() used in class components, and how does it work?

* In React **class components**, this.setState() is used to update the **state** of a component.