 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 components Use 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):

o Props are short for "properties."

o They are used to pass data from a parent component to a child component.

• State:

o State is a local data storage specific to a component.

o 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.