## **Props and State**

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

**Props** are inputs to a component, passed from a parent component. They are immutable (cannot be changed) within the component.

**State** is a component's own data that can change over time. Unlike props, state is mutable and can be updated by the component itself.

**Difference**: Props are for passing data to a component, while state is for managing data that changes within the component.

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

**State** is a component's internal data that can change over time, affecting the component's behavior and rendering. It's managed within the component and can be updated using setState (class components) or useState (functional components). Changes in state trigger a re-render.

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

this.setState() is used to update the state in class components. It merges the new state with the current state and triggers a re-render. It's asynchronous, meaning React batches updates for performance.