**Q-1) What are props in React.js? How are props different from state?**

* Props (short for *properties*) are inputs to React components.
* They allow a parent component to pass data to a child component.
* Props are read-only, which means the child cannot modify them.
* They are used to make components reusable with different data.

**Example:**

function Child(props) {

return <h1>Hello, {props.name}! </h1>;

}

function Parent () {

return <Child name="Kaushal" />;

}

* Here, name="Kaushal" is passed from the **Parent** to **Child** via props.

| **Feature** | **Props** | **State** |
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| **Definition** | Data passed from parent to child | Data managed within the component itself |
| **Mutability** | Read-only | Mutable, can change using setState (class) or useState (functional) |
| **Component Control** | Controlled by parent component | Controlled by the own component |
| **Purpose** | To configure or customize a component | To store and manage dynamic data that changes over time |
| **Example Usage** | <Child name="Kaushal" /> | const [count, setCount] = useState (0) |