

1. Explain React Components

React components are reusable building blocks of a UI. Each component returns a portion of the user interface, written using JSX.

2. Difference Between Components and JavaScript Functions

Feature	React Component	JavaScript Function
Purpose	Defines UI logic and rendering	Performs a task or computation
Return Type	Returns JSX	Returns primitive/objects/void
React Integration	Can have lifecycle, state, props	Cannot use React features directly

3. Types of React Components

- Class Components (older but powerful): Use class syntax and lifecycle methods.
 - Function Components (modern standard): Use hooks for managing state and lifecycle.
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4. Explain Class Component

A class component is a JavaScript class that extends `React.Component`. It has a `render()` method that returns JSX.

js

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```
class Welcome extends React.Component {  
  render() {  
    return <h1>Hello, World!</h1>;  
  }  
}
```

5. Explain Function Component

Function components are simpler and don't use this. They return JSX directly.

js

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```
function Welcome() {  
  return <h1>Hello, World!</h1>;  
}
```

```
}
```

6. Define Component Constructor

Constructor is used in class components to initialize state and bind methods.

js

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```
constructor(props) {  
  super(props);  
  this.state = { message: "Hello" };  
}
```

7. Define render() Function

It's a required method in class components. It returns JSX that will be rendered on the UI.