

Core Java	Differentiate between static and dynamic polymorphism.
Advanced Java	Describe Entity Life Cycle
OS	difference between fork and exec

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### List Rendering in React -----

Output page ---- How to render Lists / table/ <ul>/<ol> / custom tags

Component ShoppingCart  
Component ItemPurchased

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Index.js

FOR CURRENT VERSION ----

ReactDOM.createRoot( document.getElementById("root") ).render(<App />)

---

Shopping Cart  
<Shopping-Item>

---

### Conditional Rendering ---

On a certain condition render a component or not render a component

Solution 1-----

```
let jsx = null
If( condition is true )
    jsx=<Factorial></Factorial>
```

```
return (
    <div> {jsx} </div>
)
```

Solution 2-----

```
return (
    <div> { condition && <Factorial></Factorial> }
)
```

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### Life Cycle of React Components -----

Do you React Components are Manage objects - managed by the container( React Framework )

**React Container/ Framework** --- manages the React Component Life Cycle

What are the things that are included in Life Cycle Management

1. Create object of the component - Constructor is called
2. Mount the Component in DOM --- First time Render
3. On updating the component - Re Rendered
4. Unmount the component from the DOM model

React Exposes a few Life Cycle APIs --- These are used for **React Class Components** -----

constructor

ComponentDidMount --- called Just after the component is mounted in the DOM

ComponentDidUpdate --- called just after the component is updated ( state/ props is changed )

ComponentWillUnmount ---called just before the component will be unmounted from the DOM

**React Function Component** does not have above life cycle API

Instead it has ONLY 1 HOOK = useEffect

useEffect ( callback function , [] )	when we pass a blank array to useEffect --- the callback function is called only on MOUNT
useEffect ( callback function , [message] )	When we pass a props or a state name in useEffect array - then the callback function is called whenever that props or state is changed
useEffect ( callback function , [] )	If we return a value or a function in the callback function then the useEffect is called on UNMOUNT

