4. onClick – Practice Tasks

1. Add an onClick handler to a button that logs “Clicked!” to the console.

<button onClick={() => console.log("button is clicked")}>Click Me</button>

2. Pass an argument to a function in an onClick event to display it in an alert.

function ShowAlert() {

const handleClick = (msg) => alert(msg);

return <button onClick={() => handleClick("Hello abhi")}>Show Alert</button>;

}

3. Create an image gallery where clicking a thumbnail changes the main image.

import { useState } from "react";

export default function ImageGallery() {

const images = [

"img1",

"img2",

"img3",

];

const [current, setCurrent] = useState(images[0]);

return (

<div>

<img src={current} alt="main" style={{ width: 600, height: 300, objectFit: "cover" }} />

<div style={{ marginTop: 8, display: "flex", gap: 8 }}>

{images.map((src) => (

<img

key={src}

src={src}

alt="thumb"

onClick={() => setCurrent(src)}

style={{ width: 120, height: 60, objectFit: "cover", cursor: "pointer", border: current === src ? "2px solid #333" : "2px solid transparent" }}

/>

))}

</div>

</div>

);

}

4. Build a voting button where each click increases the vote count.

function Vote() {

const [votes, setVotes] = useState(0);

return <button onClick={() => setVotes(votes + 1)}>Votes: {votes}</button>;

}

5. Make a paragraph that changes color when clicked.

function ColorPara() {

const [color, setColor] = useState("black");

return <p style={{ color }} onClick={() => setColor("blue")}>Click to change color</p>;

}

6. Create a “Show/Hide” button for a paragraph using an onClick handler.

function ShowHide() {

const [show, setShow] = useState(true);

return (

<>

<button onClick={() => setShow(!show)}>Show/Hide</button>

{show && <p>This is a paragraph</p>}

</>

);

}

7. Build a quiz button that checks if the selected answer is correct when clicked.

function Quiz() {

const correct = "B";

const checkAnswer = (ans) => alert(ans === correct ? "Correct!" : "Wrong!");

return (

<>

<button onClick={() => checkAnswer("A")}>A</button>

<button onClick={() => checkAnswer("B")}>B</button>

</>

);

}

8. Create a button that adds a new item to a list on click.

function AddItem() {

const [items, setItems] = useState([]);

return (

<>

<button onClick={() => setItems([items, `Item ${items.length + 1}`])}>Add Item</button>

<ul>

{items.map((i, it) => <li key={it}>{i}</li>)}

</ul>

</>

);

}

9. Make a square <div> that changes its background color each time it’s clicked.

function ColorBox() {

const [color, setColor] = useState("red");

const colors = ["red", "blue", "green", "orange"];

return (

<div

style={{ width: 100, height: 100, background: color }}

onClick={() => setColor(colors[Math.floor(Math.random() \* colors.length)])}

></div>

);

}

10. Build a “Reset” button that clears an input field.

function ResetInput() {

const [text, setText] = useState("");

return (

<>

<input value={text} onChange={(e) => setText(e.target.value)} />

<button onClick={() => setText("")}>Reset</button>

</>

);

}

5. Components – Practice Tasks

1. Create a functional component Header that displays a title.

function Header({ title }) {

return <h1>{title}</h1>;

}

2. Create a class component Footer that displays the current year.

import React from "react";

class Footer extends React.Component {

render() {

return <footer>

{new Date().getFullYear()}

</footer>;

}

}

3. Make a Sidebar component and render it alongside a MainContent component.

function Sidebar()

{ return <div style={{ width: "30%", float: "left" }}>Sidebar</div>;

}

function MainContent()

{ return <div style={{ width: "70%", float: "left" }}>Main Content</div>;

}

4. Create a Button component and reuse it in three different places with different labels.

export function Button({ label, onClick }) {

return <button onClick={onClick} style={{ marginRight: 8 }}>{label}</button>;

}

export default function ButtonRow() {

return (

<div>

<Button label="Save" onClick={() => console.log("Save")} />

<Button label="Delete" onClick={() => console.log("Delete")} />

<Button label="Share" onClick={() => console.log("Share")} />

</div>

);

}

5. Build a ProfileCard component that displays profile picture, name, and description.

function ProfileCard({ img, name, desc }) {

return (

<div style={{ border: "1px solid #ccc", padding: "10px" }}>

<img src={img} width="100" alt={name} />

<h3>{name}</h3>

<p>{desc}</p>

</div>

);

}

6. Create a Weather component that takes temperature and condition as props.

function Weather({ temp, condition }) {

return <p>{temp}°C - {condition}</p>;

}

7. Build a NavBar component with links to Home, About, and Contact.

function NavBar() {

const link = { textDecoration: "none", marginRight: 12 };

return (

<nav style={{ padding: 12, borderBottom: "1px solid #eee" }}>

<a href="#home" style={link}>Home</a>

<a href="#about" style={link}>About</a>

<a href="#contact" style={link}>Contact</a>

</nav>

);

}

8. Create a Counter component with + and – buttons, and render it inside another component.

function Counter() {

const [count, setCount] = useState(0);

return (

<>

<button onClick={() => setCount(count + 1)}>+</button>

{count}

<button onClick={() => setCount(count - 1)}>-</button>

</>

);

}

function Container() {

return <Counter />;

}

9. Make a Notification component that displays a message and an “X” button to close it.

function Notification({ message }) {

const [show, setShow] = useState(true);

return show ? (

<div style={{ background: "#eee", padding: "10px" }}>

{message} <button onClick={() => setShow(false)}>X</button>

</div>

) : null;

}

10. Build a Post component that contains PostHeader, PostBody, and PostFooter as child components.

function PostHeader()

{

return

<h3>Post Title</h3>;

}

function PostBody()

{ return

<p>This is the post content.</p>

;

}

function PostFooter()

{

return <small>Footer info</small>;

}

function Post()

{

return (

<div>

<PostHeader />

<PostBody />

<PostFooter />

</div>

);

}