onClick – Practice Tasks

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

```
function ClickLog() {
  return <button onClick={() => console.log("Clicked!")}>Click Me</button>;
}
```

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

```
function AlertButton() {
  const showMsg = (msg) => alert(msg);
  return <button onClick={() => showMsg("Hello Raksha!")}>Show Alert</button>;
}
```

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

```
import React, { useState } from 'react';
import './App.css';
function ImageGallery() {
  const images = [
    " https://cdn.pixabay.com/photo/2016/03/15/12/24/student-1258137_640.jpg",
    " https://cdn.pixabay.com/photo/2017/06/16/07/29/academy-2408067_640.jpg",
    " https://cdn.pixabay.com/photo/2025/01/29/04/56/ai-generated-9367012_640.jpg"
  ];
  const [mainImg, setMainImg] = useState(images[0]);
  return (
    <div style={{ textAlign: "center", marginTop: "30px" }}>
      <h2>Image Gallery</h2>
      <img src={mainImg} alt="Main" width="200" style={{ border: "2px solid black" }} />
      <br /><br />
      {images.map((img, i) => (
```

```
        <img
          key={i}
          src={img}
          alt={`Thumbnail ${i}`}
          width="60"
          style={{ margin: "5px", cursor: "pointer", border: mainImg === img ? "2px solid red" : "1px solid gray" }}
          onClick={() => setMainImg(img)}
        />
      ))}
    </div>
  );
}
function App() {
  return (
    <div>
      <ImageGallery />
    </div>
  );
}
export default App;
```

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

```
import React, { useState } from 'react';
function VotingButton() {
  const [votes, setVotes] = useState(0);
  return (
    <div style={{ textAlign: "center", marginTop: "30px" }}>
```

```
      <h2>Voting App</h2>
      <p>Votes: {votes}</p>
      <button onClick={() => setVotes(votes + 1)}>Vote</button>
    </div>
  );
}
function App() {
  return <VotingButton />;
}
export default App;
```

5. Make a paragraph that changes color when clicked.

```
import React, { useState } from 'react';
function ColorPara() {
  const [color, setColor] = useState("black");
  return (
    <p style={{ color }} onClick={() => setColor(color === "black" ? "red" : "black")}>
      Click me to change my color
    </p>
  );
}
```

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

```
import React, { useState } from 'react';
function ShowHide() {
  const [show, setShow] = useState(true);
  return (
    <div>
```

```
      <button onClick={() => setShow(!show)}>{show ? "Hide" : "Show"}</button>
      {show && <p>This is the paragraph</p>}
    </div>
  );
}
```

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

```
function QuizButton() {
  const answer = "React";
  const checkAnswer = (ans) => alert(ans === answer ? "Correct!" : "Wrong!");
  return <button onClick={() => checkAnswer("React")}>Check Answer</button>;
}
```

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

```
import React, { useState } from 'react';
function AddItem() {
  const [list, setList] = useState([]);
  return (
    <div>
      <button onClick={() => setList([...list, `Item ${list.length + 1}`])}>Add Item</button>
      <ul>{list.map((item, i) => <li key={i}>{item}</li>)}</ul>
    </div>
  );
}
```

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

```
import React, { useState } from 'react';
function ColorBox() {
  const colors = ["red", "green", "blue", "orange"];
```

```
  const [color, setColor] = useState("red");
  return (
    <div
      onClick={() => setColor(colors[Math.floor(Math.random() * colors.length)])}
      style={{ width: "100px", height: "100px", background: color }}
    ></div>
  );
}
```

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

```
import React, { useState } from 'react';
function ResetInput() {
  const [text, setText] = useState("");
  return (
    <div>
      <input value={text} onChange={(e) => setText(e.target.value)} />
      <button onClick={() => setText("")}>Reset</button>
    </div>
  );
}
```

Components – Practice Tasks

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

```
function Header() {
  return <h1>My Website Title</h1>;
}
```

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

```
import React, { Component } from 'react';
```

```
class Footer extends 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={{ background: "#eee", padding: "10px" }}>Sidebar</div>;
}
function MainContent() {
  return <div>Main Content Here</div>;
}
```

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

```
function MyButton({ label }) {
  return <button>{label}</button>;
}
<MyButton label="Save" />
<MyButton label="Cancel" />
<MyButton label="Delete" />
```

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

```
function ProfileCard({ img, name, desc }) {
  return (
    <div>
      <img src={img} alt={name} width="100" />
      <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>Temperature: {temp}°C, Condition: {condition}</p>;
}
```

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

```
function NavBar() {
  return (
    <nav>
      <a href="/">Home</a> | <a href="/about">About</a> | <a href="/contact">Contact</a>
    </nav>
  );
}
```

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

```
import React, { useState } from 'react';
function Counter() {
  const [count, setCount] = useState(0);
  return (
    <div>
      <button onClick={() => setCount(count + 1)}>+</button> {count}
      <button onClick={() => setCount(count - 1)}>-</button>
    </div>
  );
}
```

```
function CounterWrapper() {
  return <Counter />;
}
```

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

```
import React, { useState } from 'react';
function Notification({ message }) {
  const [show, setShow] = useState(true);
  return show ? (
    <div style={{ background: "lightyellow", padding: "5px" }}>
      {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 <h2>Post Title</h2>; }
function PostBody() { return <p>This is the post content.</p>; }
function PostFooter() { return <small>Posted by Raksha</small>; }
function Post() {
  return (
    <div>
      <PostHeader />
      <PostBody />
      <PostFooter />
    </div>
  );
}
```