

LAB EXERCISE:

Task 1:

- Create a functional component Greeting that accepts a name as a prop and displays "Hello, [name]!".

App.jsx:

```
1  import Greeting from './Greeting'
2
3  function App() {
4    return (
5      <>
6        <div>
7          <Greeting myName='Amit' />
8        </div>
9      </>
10   )
11 }
12
13 export default App
14
```

Greeting.jsx:

```
1  import React from 'react'
2
3  const Greeting = (props) => {
4    return (
5      <div>
6        <h3>Hello, {props.myName}</h3>
7      </div>
8    )
9  }
10
11 export default Greeting
```

Task 2:

- Create a class component Welcome Message that displays "Welcome to React!" and a render() method.

App.jsx:

```
import Class from './Class'

function App() {
  return (
    <>
      <div>
        <Class />
      </div>
    </>
  )
}

export default App
```

Class.jsx:

```
1  import React, { Component } from 'react';
2
3  class Class extends Component {
4    render() {
5      return (
6        <div>
7          <h1>Welcome to React!</h1>
8        </div>
9      );
10   }
11 }
12
13 export default Class
```

Task 3:

- Create a React component UserCard that accepts name, age, and location as props and displays them in a card format.

App.jsx:

```
1  import React from 'react';
2  import UserCard from './UserCard';
3
4  const App = () => {
5    return (
6      <div>
7        <UserCard name="suresh" age="28" location="baroda" />
8        <UserCard name="banty" age="30" location="rajkot" />
9        <UserCard name="pakya" age="24" location="surat" />
10     </div>
11   );
12 }
13
14 export default App;
```

Usercard.jsx:

```
1  import React from 'react';
2
3  const UserCard = (props) => {
4    return (
5      <div style={{ display: 'flex', flexWrap: 'wrap' }}>
6        <div style={{
7          border: '1px solid #ddd',
8          borderRadius: '8px',
9          padding: '20px',
10         margin: '10px',
11         width: '200px',
12         boxShadow: '0 4px 8px 0 rgba(0, 0, 0, 0.1)',
13         textAlign: 'center'
14       }}>
15         <h3>{props.name}</h3>
16         <p>Age: {props.age}</p>
17         <p>Location: {props.location}</p>
18       </div>
19     </div>
20   );
21 }
22
23 export default UserCard;
```

Task4:

- Create a Counter component with a button that increments a count value using React state. Display the current count on the screen.

App.jsx:

```
1  import React from 'react';
2  import Counter from './Counter';
3
4  const App = () => {
5    return (
6      <div>
7        <h1>My React App</h1>
8        <Counter />
9      </div>
10   );
11 };
12
13 export default App
```

Counter.jsx:

```
1  import React, { useState } from 'react';
2
3  const Counter = () => {
4    const [count, setCount] = useState(0);
5
6    const increaseCount = () => {
7      setCount(count + 1);
8    };
9
10   return (
11     <div>
12       <h1>Counter Example</h1>
13       <hr />
14       <h3>Current Count: {count}</h3>
15       <button onClick={increaseCount}>Increment</button>
16     </div>
17   );
18 };
19
20 export default Counter
```