1. Class and Functional Component in ReactJS

```
ClassComponent.js
```

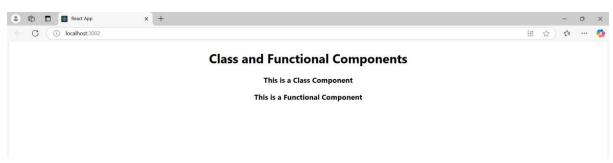
```
import React, { Component } from 'react';
class ClassComponent extends Component {
 render() {
  return (
   <div>
    <h3>This is a Class Component</h3>
   </div>
  );
}
}
export default ClassComponent;
FunctionalComponent.js
import React from 'react';
const FunctionalComponent = () => {
return (
  <div>
   <h3>This is a Functional Component</h3>
  </div>
);
};
export default FunctionalComponent;
```

App.js

import React from 'react';

output:

export default App;



2. Importing and Exporting Files (Components)

```
WelcomeMessage.js
import React from 'react';
const WelcomeMessage = () => {
 return (
  <div>
   <h1>Welcome to the React Application!</h1>
  </div>
);
};
export default WelcomeMessage;
App.js
import React from 'react';
import './App.css';
import WelcomeMessage from './WelcomeMessage';
function App() {
 return (
  <div className="App">
   <WelcomeMessage />
  </div>
);
}
```

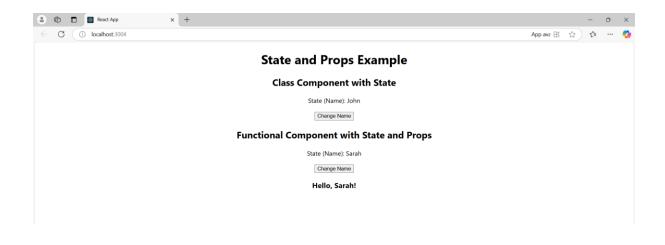
export default App;



```
3. State and Props in React
PersonClass.js
import React, { Component } from 'react';
class PersonClass extends Component {
constructor(props) {
  super(props);
  this.state = { name: 'John' };
}
changeName = () => {
  this.setState({ name: 'Alice' });
};
 render() {
  return (
   <div>
    <h2>Class Component with State</h2>
    State (Name): {this.state.name}
    <button onClick={this.changeName}>Change Name</button>
   </div>
  );
}
}
export default PersonClass;
Person.js
import React from 'react';
```

const Person = (props) => {

```
return (
  <div>
   <h3>Hello, {props.name}!</h3>
  </div>
);
};
export default Person;
App.js
import React, { useState } from 'react';
import './App.css';
import PersonClass from './PersonClass';
import Person from './Person';
function App() {
const [name, setName] = useState('Sarah');
 return (
  <div className="App">
   <h1>State and Props Example</h1>
   <PersonClass />
   <h2>Functional Component with State and Props</h2>
   State (Name): {name}
   <button onClick={() => setName('Emily')}>Change Name</button>
   <Person name={name} />
  </div>
);
}
export default App;
```





4. DOM Events in React

App.js

```
import React, { useState } from 'react';
import './App.css';
const App = () => {
 const [text, setText] = useState(");
 const [showText, setShowText] = useState(false);
 // Handle input change
 const handleInputChange = (event) => {
  setText(event.target.value);
 };
// Handle button click event
 const handleButtonClick = () => {
  setShowText(true);
 };
 return (
  <div className="App">
   <h1>React DOM Events Example</h1>
   {/* Input field event */}
   <input
    type="text"
    value={text}
    onChange={handleInputChange}
    placeholder="Type something..."
```

```
/>
{/* Button click event */}
  <button onClick={handleButtonClick}>Show Text</button>
  {/* Conditionally render text */}
   {showText && You typed: {text}}
  </div>
);
};
```

export default App;

