**4.ReactJS-HOL**

**CODE:**

**Post.js:**

import React from 'react';

class Post extends React.Component {

render() {

return (

<div style={{ marginBottom: '20px', padding: '10px', border: '1px solid #ccc' }}>

<h2>{this.props.title}</h2>

<p>{this.props.body}</p>

</div>

);

}

}

export default Post;

**Posts.js:**

import React from 'react';

import Post from './Post';

class Posts extends React.Component {

constructor(props) {

super(props);

this.state = {

posts: [

{

id: 1,

title: "Understanding React Lifecycle",

body: "React components have several lifecycle methods that let you run code at specific stages of a component's life."

},

{

id: 2,

title: "Why Use componentDidMount",

body: "The componentDidMount method is commonly used to load data from a server after the component is first rendered."

},

{

id: 3,

title: "Error Handling with componentDidCatch",

body: "componentDidCatch is used to catch errors in child components and handle them gracefully without crashing the app."

}

],

hasError: false

};

}

componentDidCatch(error, info) {

alert('An error occurred: ' + error.message);

console.error('Error info:', info);

this.setState({ hasError: true });

}

render() {

return (

<div>

<h1>React Blog</h1>

{this.state.posts.map((post, index) => (

<Post

key={post.id}

title={`Post #${index + 1}: ${post.title}`}

body={`Summary: ${post.body}`}

/>

))}

</div>

);

}

}

export default Posts;

**App.js:**

import React from 'react';

import './App.css';

import Posts from './Posts';

function App() {

return (

<div className="App" style={{ padding: '20px', fontFamily: 'Arial' }}>

<Posts />

</div>

);

}

export default App;

**OUTPUT:**



