LAB EX 5 – REACT APP
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App.css

```css
/* Styling for App component */
.App {   text-align: center;   font-family: 'Segoe UI', Tahoma,
Geneva, Verdana, sans-serif;   background-color: #81c9e6; /*
Light gray background */   padding: 20px;   min-height: 100vh;
/* Minimum full viewport height */   display: flex;   flex-
direction: column;   align-items: center;   justify-content:
center; }

/* Styling for the header */ h1 {
color: #007bff; /* Blue header text */
font-size: 36px;   margin-bottom: 20px;
}

/* Styling for the counter */
.counter {   background-color: #fff; /* White
background */   border-radius: 4px;   padding:
20px;   box-shadow: 0px 4px 6px rgba(0, 0, 0,
0.1); }

/* Styling for the counter value */
h2 {   font-size: 48px;   color:
#333; /* Dark text color */
margin-bottom: 20px;
}

/* Styling for the increment and decrement buttons */
button {   padding: 10px 20px;   background-color:
#007bff; /* Blue button background */   color: white;
border: none;
```

App.js

```css
  border-radius: 4px;    font-size: 18px;
cursor: pointer;    margin: 0 10px;    transition:
background-color 0.2s ease-in-out;
}

button:hover {    background-color: #0056b3; /* Darker
blue on hover */ }
```

App.test.js

```jsx
import React, { Component } from 'react';
import RandomNumber from './RandomNumber';

class App extends Component {    constructor() {
super();       this.state = {         randomNumber: null,
min: 1, // Minimum value for the random number
max: 100, // Maximum value for the random number
    };
}

  generateRandomNumber = () => {      const { min, max } = this.state;
const randomNum = Math.floor(Math.random() * (max - min + 1)) + min;
this.setState({ randomNumber: randomNum });
  };

  render() {
return (
      <div className="App">
        <h1>Random Number Generator</h1>
        <RandomNumber
randomNumber={this.state.randomNumber}
        generateRandomNumber={this.generateRandomNumber}
        />
      </div>
    );
  } } export
default App;
```

```
import { render, screen } from '@testing-library/react';
import App from './App';

test('renders learn react link', () => {    render(<App
/>);    const linkElement = screen.getByText(/learn
react/i);    expect(linkElement).toBeInTheDocument(); });
```

Index.css

```
import { render, screen } from '@testing-library/react';
import App from './App';

test('renders learn react link', () => {    render(<App
/>);    const linkElement = screen.getByText(/learn
react/i);    expect(linkElement).toBeInTheDocument(); });
```

```css
body {   margin: 0;   font-family: -apple-system, BlinkMacSystemFont,
'Segoe UI', 'Roboto',
'Oxygen',
    'Ubuntu', 'Cantarell', 'Fira Sans', 'Droid Sans', 'Helvetica Neue',
sans-serif;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
}

code {   font-family: source-code-pro, Menlo, Monaco, Consolas, 'Courier
New',    monospace; }
```

Index.js

```
// or send to an analytics endpoint. Learn more: https://bit.ly/CRA-
vitals reportWebVitals();
```

OUTPUT:

```jsx
import React from 'react'; import ReactDOM from
'react-dom/client'; import './index.css'; import
App from './App'; import reportWebVitals from
'./reportWebVitals';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
  <React.StrictMode>
    <App />
  </React.StrictMode>
);

// If you want to start measuring performance in your app, pass a function
// to log results (for example: reportWebVitals(console.log))
```

Random Number Generator

Random Number: 37

Generate

Random Number Generator

Random Number: 72

Generate