

React Syntax

✍ Write Only Syntax (No Explanation Required)

1 Write syntax to create a React Functional Component.

```
const MyComponent = () => {
  return (
    <div></div>
  );
};
```

2 Write syntax of `useState`.

```
const [stateVariable, setStateVariable] = useState(initialValue);
```

3 Write syntax of `useEffect`.

```
useEffect(() => {
});
```

4 Write syntax of `useEffect` with dependency array.

```
useEffect(() => {
}, [dependency1, dependency2]);
```

5 Write syntax of `useEffect` that runs only once.

```
useEffect(() => {  
}, []);
```

6 Write syntax to install and setup React Router.

1. Install React Router

```
npm install react-router-dom
```

2. Basic Setup in a React App

```
import React from 'react';  
import { BrowserRouter as Router, Routes, Route } from 'react  
-router-dom';  
import Home from './Home';  
import About from './About';  
  
function App() {  
  return (  
    <Router>  
      <Routes>  
        <Route path="/" element={<Home />} />  
        <Route path="/about" element={<About />} />  
      </Routes>  
    </Router>  
  );  
}
```

```
export default App;
```

7 Write basic routing setup using `BrowserRouter`, `Routes`, and `Route`.

```
import React from 'react';
import { BrowserRouter, Routes, Route } from 'react-router-dom';
import Home from './Home';
import About from './About';

function App() {
  return (
    <BrowserRouter>
      <Routes>
        <Route path="/" element={<Home />} />
        <Route path="/about" element={<About />} />
      </Routes>
    </BrowserRouter>
  );
}

export default App;
```

8 Write syntax for navigation using `Link`.

```
import { Link } from 'react-router-dom';
```

```
import { Link } from 'react-router-dom';

function Navigation() {
  return (
```

```

    <nav>
      <Link to="/">Home</Link>
      <Link to="/about">About</Link>
    </nav>
  ) ;
}

export default Navigation;

```

9 Write syntax to get route parameter using `useParams` .

```

import { useParams } from 'react-router-dom';

function Component() {
  const { id } = useParams();

  return (
    <div>
      <p>Route parameter: {id}</p>
    </div>
  );
}

export default Component;

```

10 Write syntax for conditional rendering using ternary operator in JSX.

```

function Component({ isLoggedIn }) {
  return (
    <div>
      {isLoggedIn ? <p>Welcome User!</p> : <p>Please Login</p>}
    </div>
  );
}

export default Component;

```

```
>}
  </div>
);
}

export default Component;
```