

S1: Project and Files

```
C:\demo\jsmarch24\L9>npx create-react-app p3_sqrt_app
C:\demo\jsmarch24\L9>cd p3_sqrt_app
C:\demo\jsmarch24\L9\p3_sqrt_app>npm install react-router-dom
C:\demo\jsmarch24\L9\p3_sqrt_app>cd src
C:\demo\jsmarch24\L9\p3_sqrt_app\src>notepad Sqrt.js
C:\demo\jsmarch24\L9\p3_sqrt_app\src>notepad Result.js
C:\demo\jsmarch24\L9\p3_sqrt_app\src>notepad Page404.js
C:\demo\jsmarch24\L9\p3_sqrt_app\src>cd..
C:\demo\jsmarch24\L9\p3_sqrt_app>npm start
```

S2: Coding**Sqrt.js**

```
import { useState, useRef } from "react";
import { useNavigate } from "react-router-dom";
```

```
function Sqrt()
{
    const rNum = useRef();
    const nav = useNavigate();
    const [num, setNum] = useState("");
    const hNum = (event) => { setNum(event.target.value); }

    const find = (event) => {
        event.preventDefault();
        if (num == "")
        {
            alert("u did not enter number");
            rNum.current.focus();
            return;
        }

        if (parseFloat(num) < 0)
        {
            alert("-ve number not allowed");
            rNum.current.focus();
            return;
        }

        let n = parseFloat(num);
        let r = n ** 0.5;
        r = r.toFixed(2);
        nav("/result", { state : {"res": r}})
    }
}
```



```
return(
  <>
  <center>
    <h1> Sqrt Finder </h1>
    <form onSubmit={find}>
      <input type="number" placeholder="enter number" step="any"
        onChange={ hNum} ref={ rNum}/>
      <br/><br/>
      <input type="submit" value="Find Sqrt"/>
    </form>
  </center>
</>
);
}
export default Sqrt;
```

Result.js

```
import { useLocation, Link } from "react-router-dom";

function Result()
{
  const loc = useLocation();
  return(
    <>
    <center>
      <h1> Result Page </h1>
      { loc.state !== null ? loc.state.res : "no trespassing pls" }
      <br/>
      <Link to="/" > Home </Link>
    </center>
    </>
  );
}
export default Result;
```


App.js

```
import logo from './logo.svg';
import './App.css';
import Sqrt from './Sqrt';
import Result from './Result';
import Page404 from './Page404';
import { BrowserRouter, Routes, Route } from "react-router-dom";
```

```
function App() {
  return (
    <BrowserRouter>
      <Routes>
        <Route path="/" element={ <Sqrt/> } />
        <Route path="/result" element={ <Result/> } />
        <Route path="*" element={ <Page404/> } />
      </Routes>
    </BrowserRouter>
  );
}
export default App;
```

App.css

```
*
{
  font-size:3vw;
}

body
{
  background-color:lightyellow;
}
```

S3: Deployment