***React Routers***

***Q. What is routing?***

***Ans****. Routing is navigation inside our web application from page/component to another on*

*change of routes in our URL.*

***NOTE:*** *Installing React router dom:*  ***npm i react-router-dom***

***To enable this functionality we our entire App component inside index.js file inside***

***BrowserRouter:***

***SNIPPET:***

*import React from 'react';*

*import ReactDOM from 'react-dom/client';*

*import './index.scss';*

*import App from './App';*

***import { BrowserRouter } from 'react-router-dom';***

*import reportWebVitals from './reportWebVitals';*

*const root = ReactDOM.createRoot(document.getElementById('root'));*

*root.render(*

*<React.StrictMode>*

***<BrowserRouter>***

***// BrowserRouter is a router implementation that uses the HTML5 history API***

***(pushstate, replacestate, and popstate events) to keep your UI in sync with the URL. Itis***

***the parent component used to store all other components.***

***<App/>***

***</BrowserRouter>***

*</React.StrictMode>*

*);*

***Routes & Route:***

***SNIPPET:***

***import { Routes,Route } from 'react-router-dom';***

*const App = ()=> {*

*return (*

*<Routes>*

***// Parent Route consisting of different routes***

*<Route path='/' element={<Home/>}/>*

***//Routes which renders a component using relative path URLS***

*</Routes>*

*)*

*}*

***Parental and Child Route Components + Outlet + index attribute:***

***SNIPPET:***

*import React from 'react';*

*import './App.style.scss';*

*import Home from './routes/home/home.components';*

*import { Routes,Route, Outlet } from 'react-router-dom';*

*const Navigation = () => {*

*return(*

*<div>*

*I am navbar*

***<Outlet/>***

***// Outlet defines where Child route components will be placed in Parental route***

***components.***

*</div>*

*)*

*}*

*const App = ()=> {*

*return (*

*<Routes>*

*<Route path='/nav' element={<Navigation/>}>* ***//Parental Route***

*<Route index element={<Home/>}/>*

***// Child Route which does uses any extra path just uses the Parental Route "/"***

***because of "index" attribute.***

*<Route path='/home' element={<Home/>}/>*

***//Child Route using a diiferent path that is "/nav/home"***

*</Route>*

*</Routes>*

*)*

*}*

*export default App;*

***Fragment and Links:***

***SNIPPET:***

*import { Outlet,Link } from "react-router-dom";*

*import { Fragment } from "react";*

*const Navigation = () => {*

*return(*

*<Fragment>*

***// Acts as parental container to wrap our entire application. Does not takes any***

***space, as can be seen by inspecting the html no Fragment tag is found.***

*<div className="navigation">*

*<Link className="logo-container" to='/'>*

***// Acts as a anchor tag with few additional functionalities.Used with react-***

***router-dom.***

*<div>Logo</div>*

*</Link>*

*</div>*

*<Outlet/>*

*</Fragment>*

*)*

*}*

***Importing SVgs:***

***SNIPPET:***

***import { ReactComponent as Logo } from "../../assets/crown.svg";***