For adding Routing in React Application

);

}

```
1. Add following entry in package.json and then give commend npm install,
       "react-scripts": "5.0.1",
         "web-vitals": "^2.1.4",
         "react-router-dom":"^6.3.0",
       "bootstrap":"^4.6"
   2. Wrap <App> entry inside BrowserRouter component in index.js
       import reportWebVitals from './reportWebVitals';
   import {BrowserRouter} from 'react-router-dom'
   const root = ReactDOM.createRoot(document.getElementById('root'));
   root.render(
    <React.StrictMode>
    <BrowserRouter>
     <App />
    </BrowserRouter>
    </React.StrictMode>
   );
   3. In App.js add Header, Footer and MainNavBar components entries. And also add the
       components
function App() {
return (
  <div className="App">
  <Header></Header>
<MainNavBar></MainNavBar>
<Footer></Footer>
  </div>
   4. Create MainNavBar.js, copy some navbar from bootstrap library, change the menu options,
       and replace anchor tag with NavLink, and href with to property
       import React from 'react'
       import { NavLink } from 'react-router-dom'
       export default function MainNavBar() {
        return (
```

```
<div>
     <nav className="navbar navbar-expand-lg navbar-light bg-light">
     <a className="navbar-brand" href="#">Navbar</a>
     <button className="navbar-toggler" type="button" data-toggle="collapse" data-
   target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
   expanded="false" aria-label="Toggle navigation">
      <span className="navbar-toggler-icon"></span>
     </button>
     <div className="collapse navbar-collapse" id="navbarSupportedContent">
      ul className="navbar-nav mr-auto">
       <NavLink className="nav-link" to="/home">Home <span className="sr-
   only">(current)</span></NavLink>
       className="nav-item">
        <NavLink className="nav-link" to="/table">Table</NavLink>
       cli className="nav-item">
        <NavLink className="nav-link" to="/list">List</NavLink>
       cli className="nav-item">
        <NavLink className="nav-link" to="/form">form</NavLink>
       cli className="nav-item">
        <NavLink className="nav-link disabled">Disabled</NavLink>
       </div>
    </nav></div>
    )
5. Add Routes entry and all components import entries in App.js, create Homecomponent,
   ProductTable, ProductList, ProductForm as basic function components
   import logo from './logo.svg';
   import './App.css';
   import "bootstrap/dist/css/bootstrap.min.css"
   import Header from './components/Header';
   import Footer from './components/Footer';
   import MainNavBar from './components/MainNavBar';
   import HomeComponent from './pages/HomeComponent';
   import ProductTable from './pages/ProductTable';
   import ProductForm from './pages/ProductForm';
   import ProductList from './pages/ProductList';
   import {Navigate} from 'react-router-dom';
```

```
function App() {
    return (
     <div className="App">
      <Header></Header>
      <MainNavBar></MainNavBar>
      <Footer></Footer>
      <Routes>
       <Route path="/" element={<Navigate replace to="/home"></Navigate>}></Route>
       <Route path="/home" element={<HomeComponent></HomeComponent>}></Route>
       <Route path="/table" element={<ProductTable></ProductTable>}></Route>
       <Route path="/list" element={<ProductList></ProductList>}></Route>
       <Route path="/form" element={<ProductForm></ProductForm>}></Route>
     </Routes>
     </div>
    );
   }
   export default App;
6. To add child route in table . change the ProductTable.js as follows
   import React from 'react'
   import { Outlet,Link} from 'react-router-dom'
   export default function ProductTable() {
    return (
     <div>
     {/* Link component will change the url to /form after you click on the button */}
     <Link to="/form">
      <button type="button" name="btn" id="btn">Add new product</button>
     </Link>
       <Link to="/table/p1">
         Product 1
         </Link>
         <Link to="/table/p2">
         Product 2
         </Link>
         <Link to="/table/p3">
         Product 3
         </Link>
       <div>
       {/* It is place hoder to display child component */}
```

```
<Outlet></Outlet>
       </div>
     </div>
    )
   }
7. Add ProductDetails component as follows
   import React from 'react'
   import { useParams } from 'react-router-dom';
   export default function ProductDetails() {
     const params=useParams();
    return (
      <div>
      <h1>ProductDetails</h1>
     <h3>{params.id}</h3>
      </div>
    )
   }
8. Add following entries in App.js
   import logo from './logo.svg';
   import './App.css';
   import "bootstrap/dist/css/bootstrap.min.css"
   import Header from './components/Header';
   import Footer from './components/Footer';
   import MainNavBar from './components/MainNavBar';
   import HomeComponent from './pages/HomeComponent';
   import ProductTable from './pages/ProductTable';
   import ProductForm from './pages/ProductForm';
   import ProductList from './pages/ProductList';
   import ProductDetails from './pages/ProductDetails';
   import {Navigate,Routes,Route} from 'react-router-dom';
   function App() {
    return (
      <div className="App">
      <Header></Header>
      <MainNavBar></MainNavBar>
      <Footer></Footer>
      <Routes>
       <Route path="/" element={<Navigate replace to="/home"></Navigate>}></Route>
       <Route path="/home" element={<HomeComponent>></HomeComponent>}></Route>
       <Route path="/table" element={<ProductTable></ProductTable>}>
         <Route path=":id" element={<ProductDetails></ProductDetails>}></Route>
       </Route>
       <Route path="/list" element={<ProductList></ProductList>}></Route>
       <Route path="/form" element={<ProductForm></ProductForm>}></Route>
      </Routes>
```

```
</div>
);
}
export default App;
```