PROGRAM – 2

Develop a React application that demonstrates the use of props to pass data from a parent component to child components. The application should include the parent component named App that serves as the central container for the application. Create two separate child components, Header: Displays the application title or heading. Footer: Displays additional information, such as copyright details or a tagline. Pass data (e.g., title, tagline, or copyright information) from the App component to the Header and Footer components using props. Ensure that the content displayed in the Header and Footer components is dynamically updated based on the data received from the parent component.

Step 1: Create a New React Application
First, you need to create a new React app using below command. Open your terminal and run:

npx create-react-app react-props-demo

cd react-props-demo

Step 2: Define the Components

1. App Component (Parent Component)
   In src/App.js, we define the parent component App, which will pass data to the child components using props.

App.js

```
import React from 'react';
import Header from './Header';
import Footer from './Footer';
import './App.css';

function App() {
  const title = "Welcome to My React App";
  const tagline = "Building great apps with React";
  const copyright = "© 2025 MyApp, All Rights Reserved";

  return (
    <div className="App">
```

```
          <Header title={title} />
          <Footer tagline={tagline} copyright={copyright} />
        </div>
      );

  }
export default App;
```

1. Header Component (Child Component)
   Create a new file src/Header.js for the Header component, which will receive the title as a prop.

Header.js

```
import React from 'react';

function Header(props) {
  return (
    <header>
      <h1>{props.title}</h1>
    </header>
  );

}

export default Header;
```

2. Footer Component (Child Component)
   Create a new file src/Footer.js for the Footer component, which will receive the tagline and copyright as props.

Footer.js

```
import React from 'react';

function Footer(props) {
  return (
    <footer>
      <p>{props.tagline}</p>
      <p>{props.copyright}</p>
    </footer>
  );

}
```
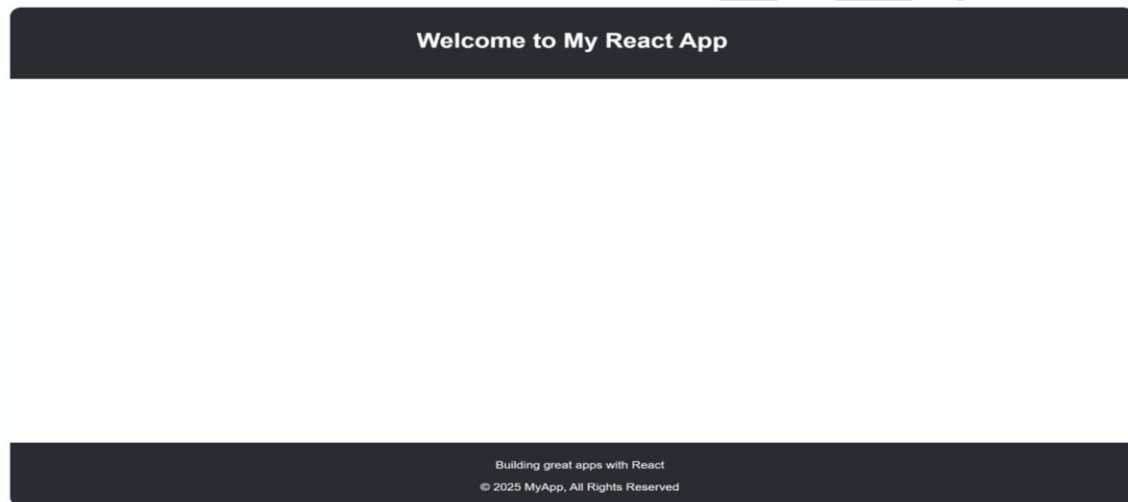
export default Footer;

Step 4: Run the application
Back in your terminal, start the development server by running:

npm start

OUTPUT

Welcome to My React App

Building great apps with React

© 2025 MyApp, All Rights Reserved