

# Week 5 Portfolio

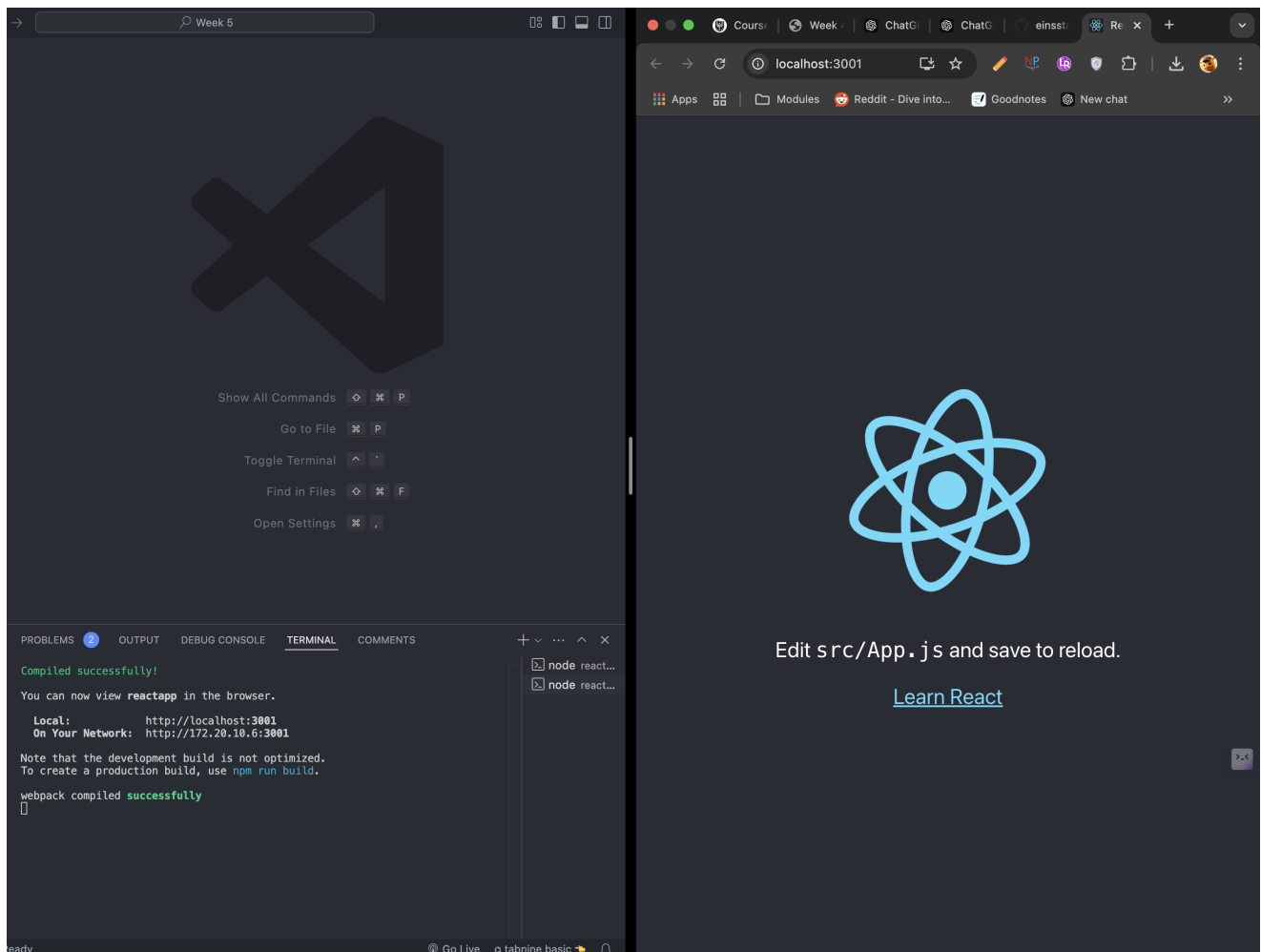
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## Introduction to React Programming

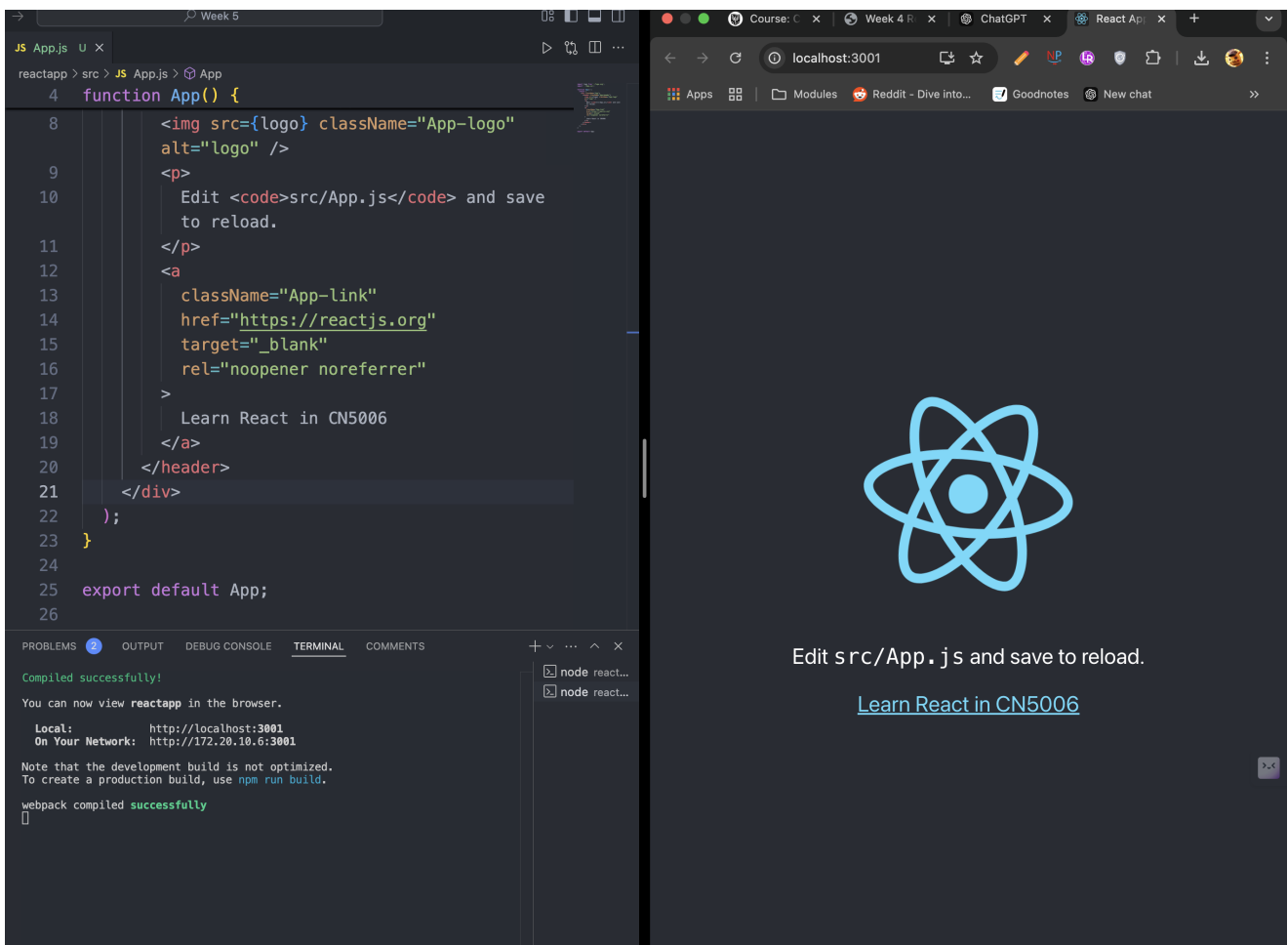
### 1. Screenshots

React app running

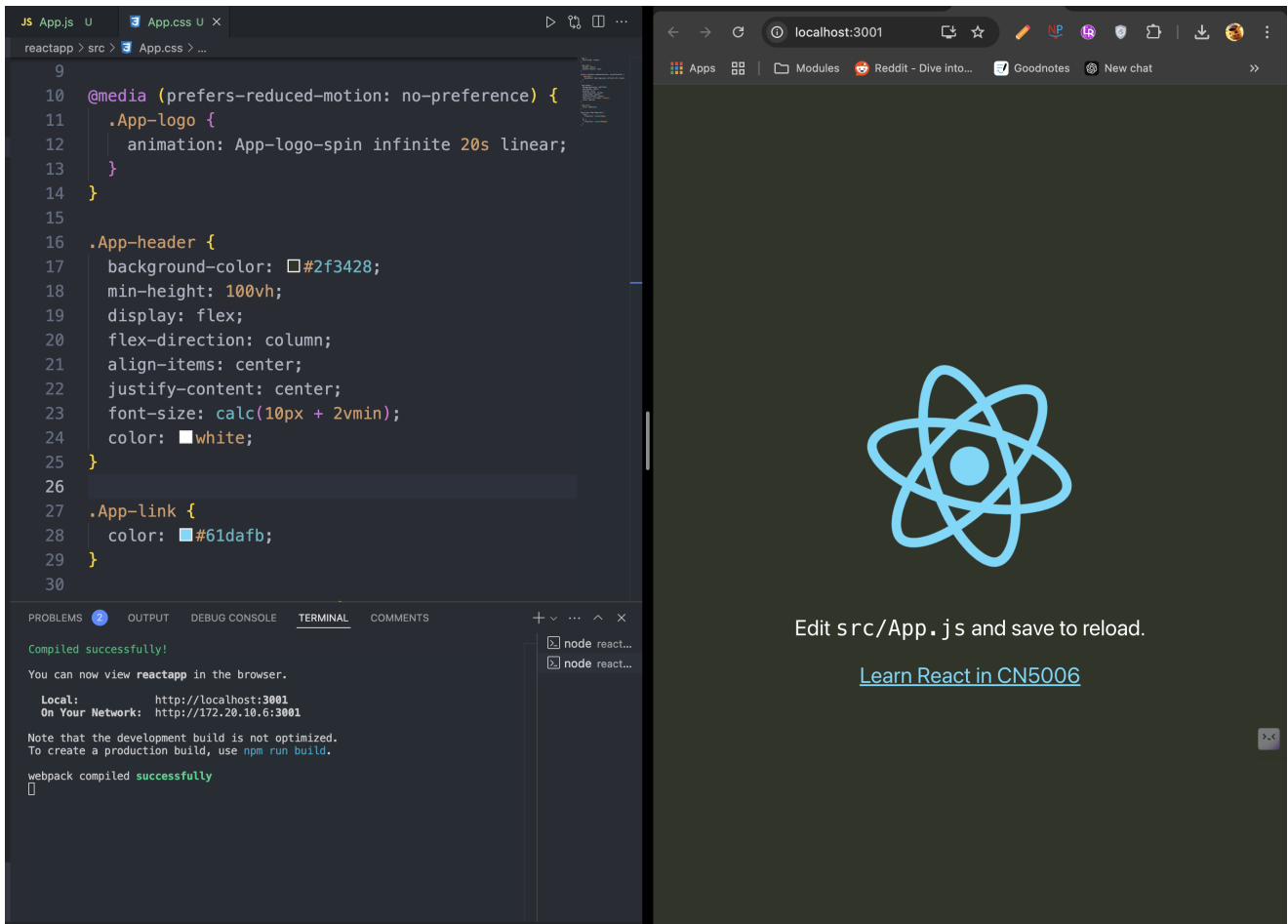


### Task 1: Change the text appearing into your React Application

Changed the text to "Learn React in CN5006"

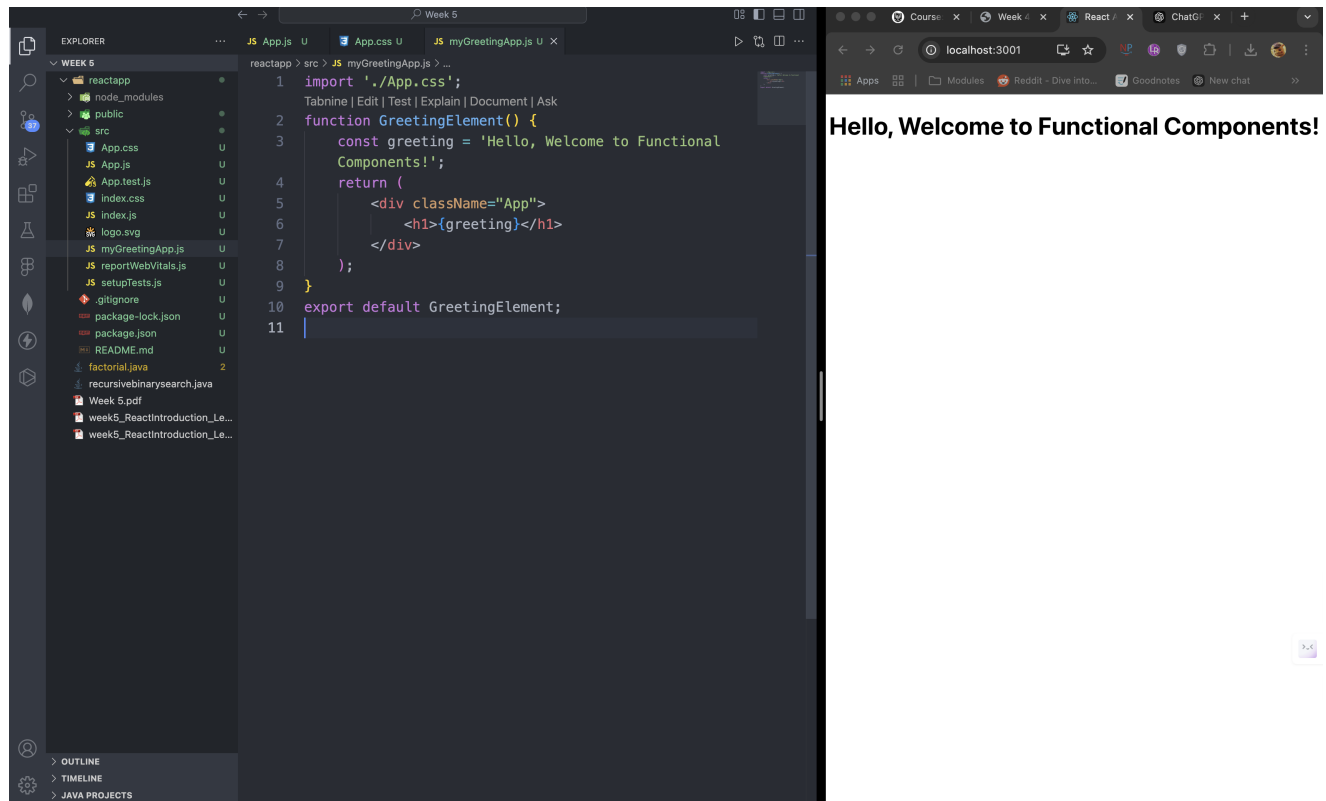


## Task 2: Change the background color of your application:



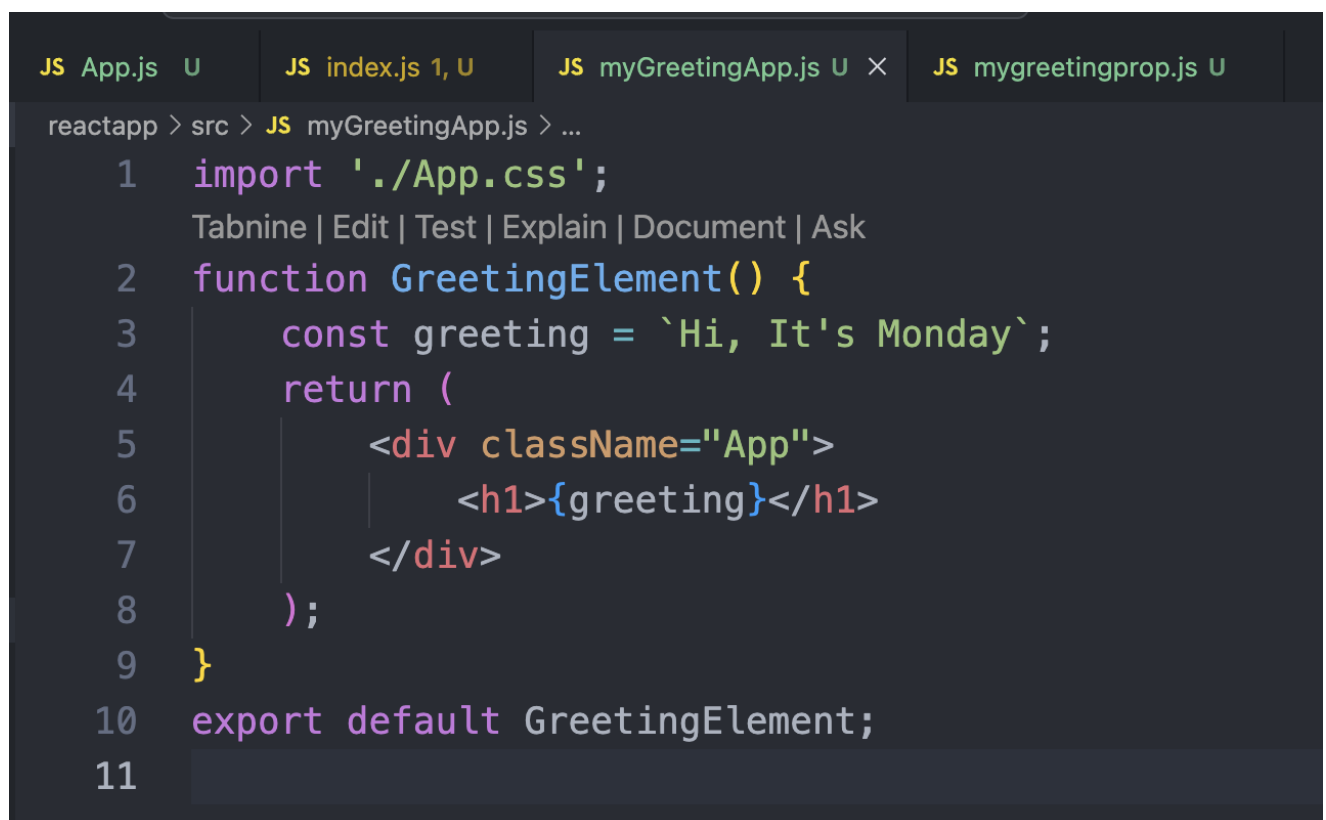
## Task3 : Creating stateless function component using React

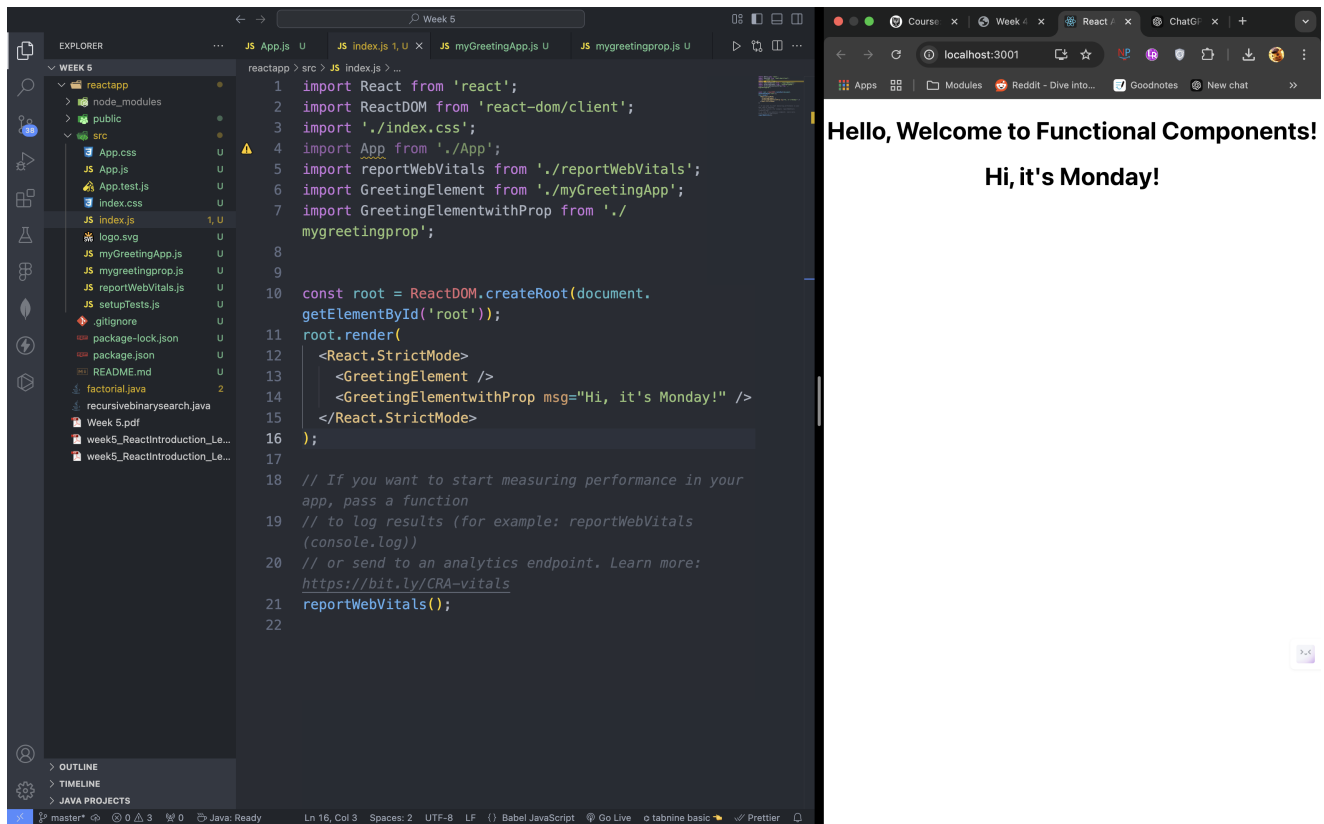
Firstly, I created a new file `myGreetingApp.js`, then in that file I defined a functional component called `GreetingElement`. Next, imported it to `index.js` file to render.



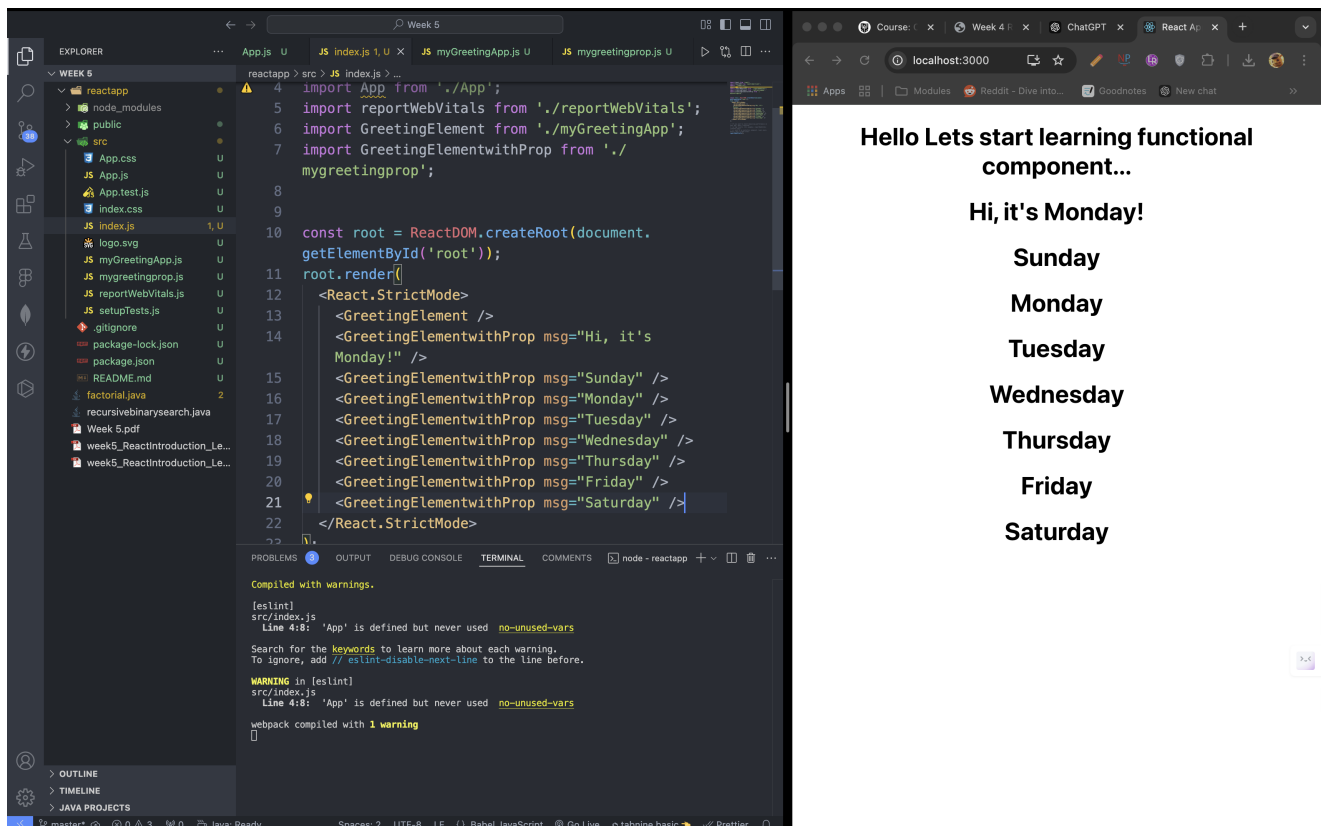
## Task 4 Creating the Functional Component using properties

Created a new file `myGreetingProp.js` and defined a component with properties:





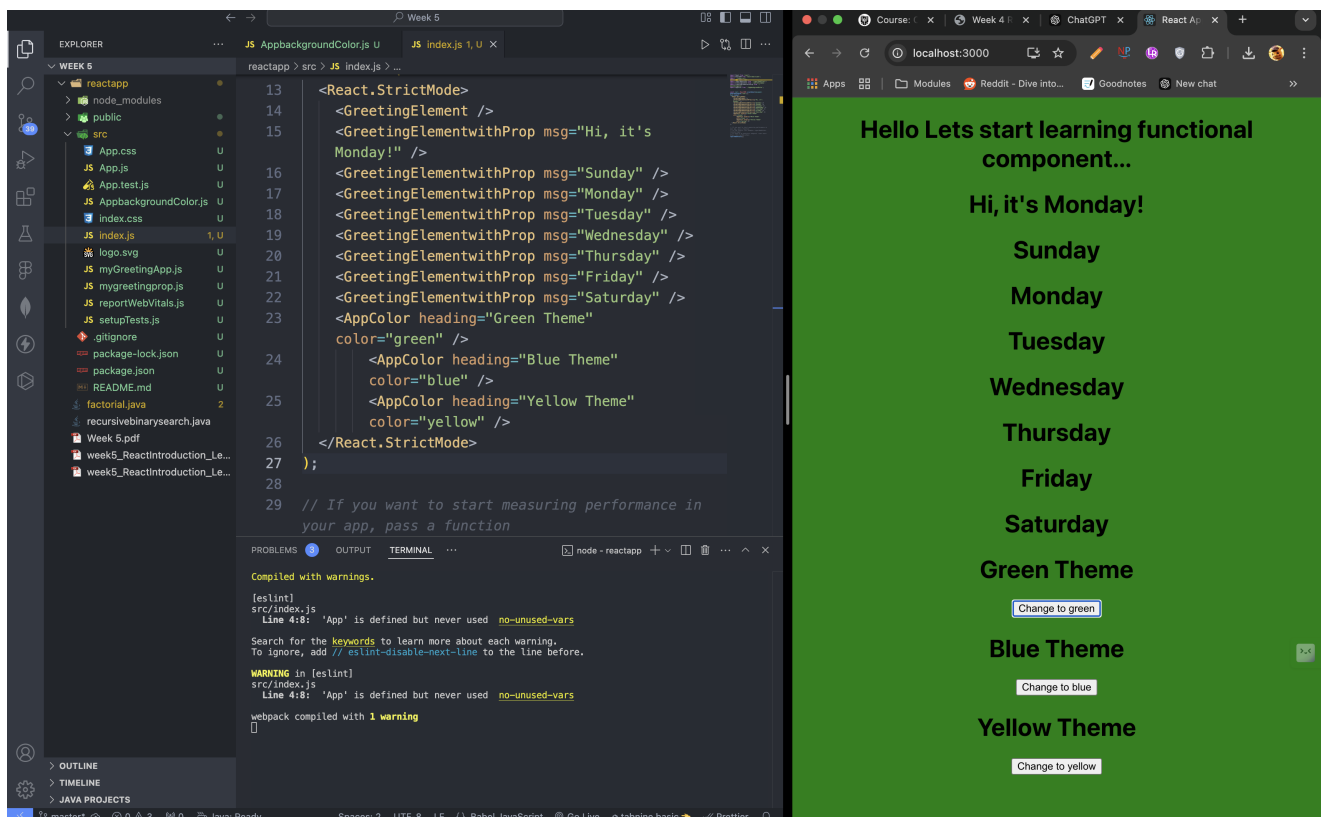
## Task 5 Display Seven Days of Week



## Task 6: Functional Components with Buttons

```
JS AppbackgroundColor.js U X JS index.js 1, U
reactapp > src > JS AppbackgroundColor.js > ...
Tabnine | Edit | Test | Explain | Document | Ask

2 function AppColor(props) {
3   function changeBackgroundColor(e) {
4     document.body.style.background = props.
5       color;
6     alert(`Background color changed to $
7       {props.color}`);
8   }
9   return (
10    <div className="App">
11      <h1>{props.heading}</h1>
12      <button onClick=
13        {changeBackgroundColor}>
14        Change to {props.color}
15      </button>
16    </div>
17  );
18 }
19 export default AppColor;
```



## 2. Questions

1. **What is React & What do you understand by React component, what command do you use to create a React component with or without property?**

React is a library for building UI using reusable components. Create a component using `function ComponentName(props)` or `class ComponentName extends React.Component`.

2. **What command will you use to render the newly created component named as MyReact?**

We can use `ReactDOM.render(<MyReact />, document.getElementById('root'));`

3. **Suppose the MyReact Component has a property heading, write the code to render the MyReact Component, and pass the message to the property heading as “this is my first element.”**

```
ReactDOM.render(  
,  
document.getElementById('root')  
);
```

4. `<AppColor heading="This is first element" lbl="Name :" color="green" />`

**What is the name of the React Component?**

The name is `AppColor`.

**How many properties does this component use?**

It uses three properties: `heading`, `lbl`, and `color`.

5. **Look at the following Code:**

```
function GreetingElementwithProp(props) {  
  
  return (  

```

**Wellcome , {props.studentname}**

```
;
```

```
);
```

```
} export default ??????
```

what will you write to make this export function correctly? Hint you need to replace ??????

answer - `export default GreetingElementwithProp;`

- 6. Add a function that takes two properties as numbers, adds these numbers on button click, and displays the sum.**

```
function AddNumbers(props) {  
  function handleClick() {  
    alert(`Sum: ${props.num1 + props.num2}`);  
  }  
  return <button onClick={handleClick}>Add Numbers</button>;  
}
```

### 3. Reflection

This lab was pretty interesting and a bit challenging at times. I started by creating a React app and changing the text, which felt like a good intro to how React works. Changing the background color was simple but gave me a better understanding of styles. Creating functional components was a cool experience—I liked how I could pass props like "Hi, it's Monday" and see it display on the page.

The button task where I added events to change the background color was the most fun because I could actually interact with the app in my chrome browser. I got stuck for a bit on exporting functions, but once I figured out the correct syntax, it was okay. JSX was a bit odd to grasp at first, combining HTML and JavaScript, but it's starting to make sense now. Overall, I learned a lot and feel like I'm getting the hang of React basics.