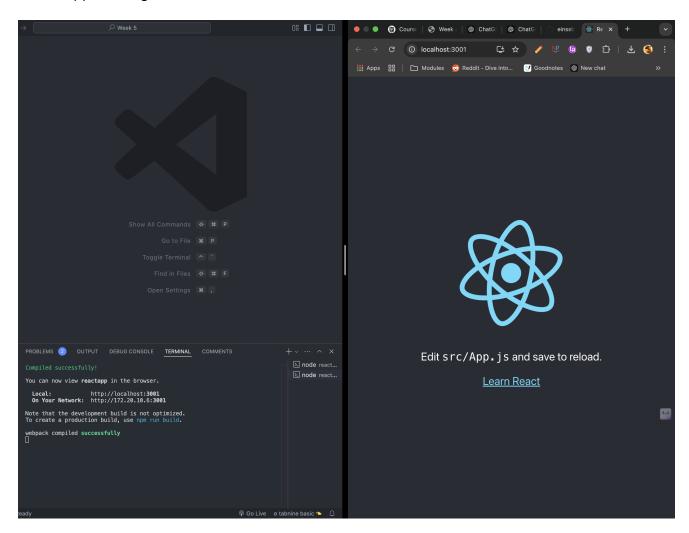
Week 5 Portfolio

Name: Deepak Kumar Student ID: 2284279

Introduction to React Programming

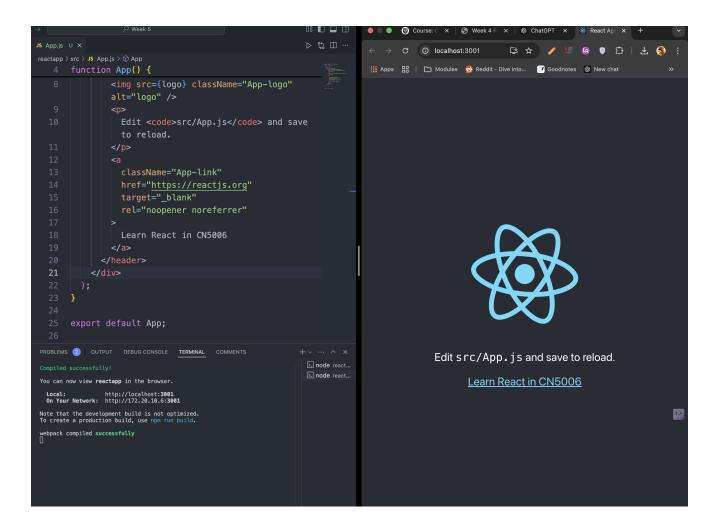
1. Screenshots

React app running

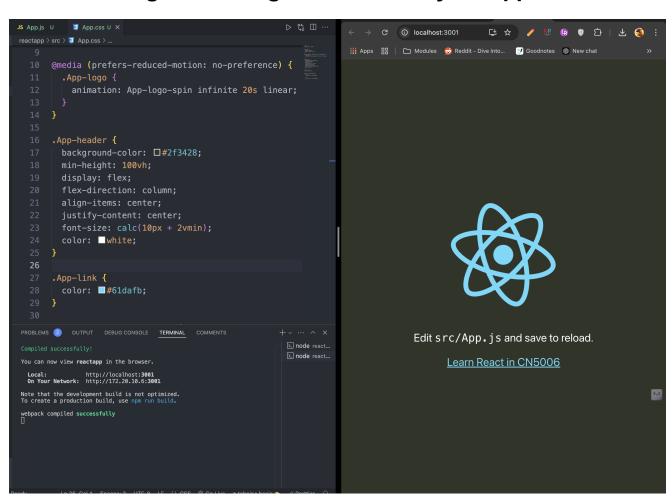


Task 1: Change the text appearing into your React Application

Changed the text to "Learn React in CN5006"

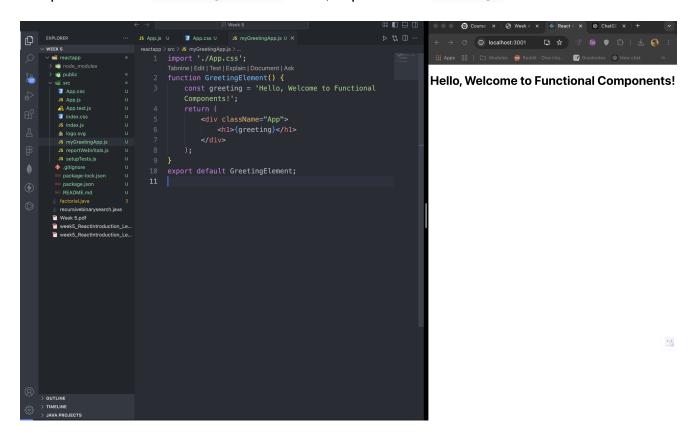


Task 2: Change the background color of your application:



Task3: Creating stateless function component using React

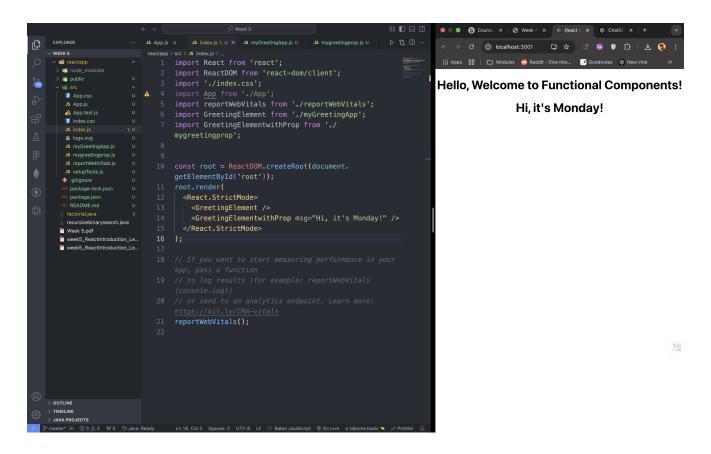
Firstly, I created a new file myGreetingApp.js, then in that file I defined a functional component called GreetingElement. Next, imported it to index.js file to render.



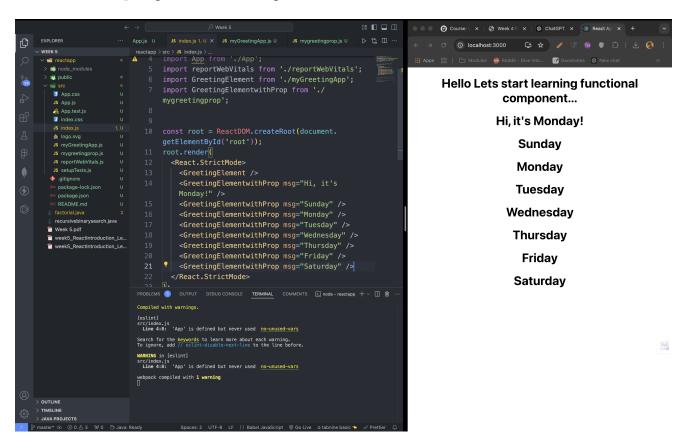
Task 4 Creating the Functional Component using properties

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

```
JS App.js U
             JS index.js 1, U
                             JS myGreetingApp.js U X JS mygreetingprop.js U
reactapp > src > JS myGreetingApp.js > ...
        import './App.css';
        Tabnine | Edit | Test | Explain | Document | Ask
        function GreetingElement() {
             const greeting = `Hi, It's Monday`;
             return (
                  <div className="App">
    5
                       <h1>{greeting}</h1>
                  </div>
             );
        export default GreetingElement;
   10
   11
```



Task 5 Display Seven Days of Week



Task 6: Functional Components with Buttons

```
JS AppbackgroundColor.js U X JS index.js 1, U
                                                                                                         th Ⅲ …
 reactapp > src > JS AppbackgroundColor.js > ...
             Tabnine | Edit | Test | Explain | Document | Ask
             function AppColor(props) {
                    function changeBackgroundColor(e) {
0
                            document.body.style.background = props.
                            color;
                            alert(`Background color changed to $
                            {props.color}`);
                    return (
                            <div className="App">
                                   <h1>{props.heading}</h1>
     10
                                   <button onClick=</pre>
                                   {changeBackgroundColor}>
     11
                                           Change to {props.color}
                                   </button>
     12
                            </div>
     13
                     );
     15
     16
             export default AppColor;
     17
   EXPLORER
þ
                                                                                             다 ☆ 🖊 🖟 📵 🚨 다 🖵 🧐 :
                                                                              © localhost:3000
                                                                         🟢 Apps 🔡 | 🗀 Modules 👶 Reddit - Dive into... 📝 Goodnotes 🚳 New chat
                           <React.StrictMode>
                                                                              Hello Lets start learning functional
                             <GreetingElementwithProp msg="Hi, it's</pre>
                                                                                         component...
                            Hi, it's Monday!
                                                                                            Sunday
                            <GreetingElementwithProp msg="Friday" />
                                                                                            Monday
                            <GreetingElementwithProp msg="Saturday" />
                                                                                            Tuesday
                               <AppColor heading="Blue Theme"
color="blue" />
                                                                                          Wednesday
                                <AppColor heading="Yellow Theme"</pre>
                                                                                           Thursday
                           </React.StrictMode>
                                                                                             Friday
                                                                                           Saturday
                     PROBLEMS 3 OUTPUT TERMINAL
                                                                                         Green Theme
                     Compiled with warnings.
                                                                                            Change to green
                     Search for the <a href="keywords">keywords</a> to learn more about each warning. To ignore, add // eslint-disable-next-line to the line before
                                                                                          Blue Theme
                     WARNING in [eslint]
src/index.js
Line 4:8: 'App' is defined but never used no-unused-vars
                                                                                            Change to blue
                       pack compiled with 1 warning
                                                                                         Yellow Theme
                                                                                            Change to yellow
```

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) {
```

Wellcome, {props.studentname}

```
;
);
} export default ??????
```

return (

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.