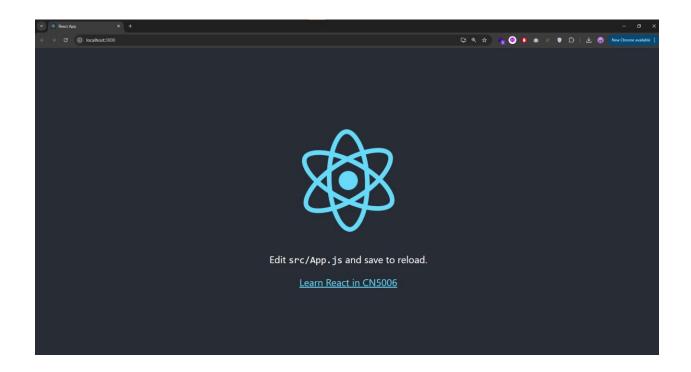
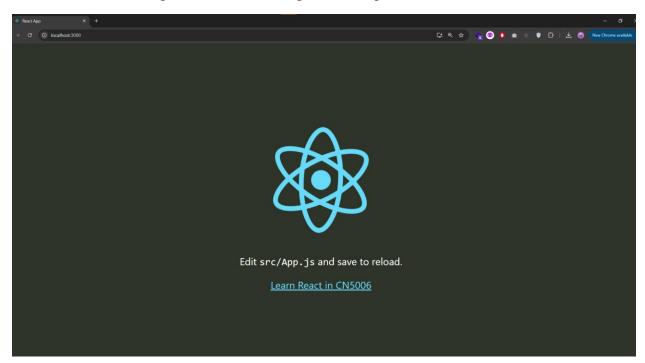
Week 5

Task 1
In this task I have change the text in react which is defined in src\App.js



Task 2

In this task I have changed the color of background using css



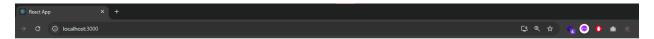
Task 3

In this task I have created a new component with a message in it and import it in app.js to render. Now instead of render <App/> it renders my custom components on run

Hello Lets start learning function Component...

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In this task I have created a functional component that use message as prop to display the message. This component is being used in index.js to render



Hi, it's Monday!

Task 5

In this task I have created a component to change the background color random

```
deenalam > week_5 > myapp > src > 35 AppColor;s > ② AppColor

import React from 'react';

function AppColor(props) {

// Function to change the background color and show an alert

function AppColor(props) {

// Function to change the background color of the body based on the input field value

document.body.style.background = e.target.value;

// Alert the value entered in the input field

alert("Welcome Mr " + document.getElementById(props.color).value);

return (

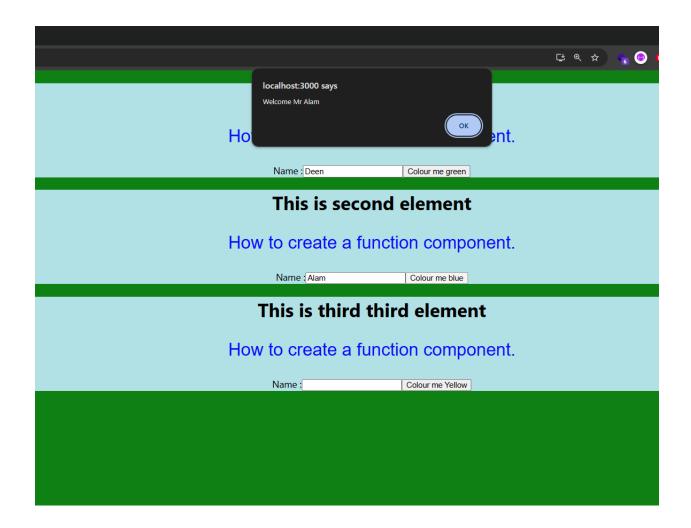
// div className="App" style={{ backgroundColor: 'powderblue', color: 'black' }}

// tart (props.heading) { // nll}

// style={{ color: 'blue', font: '38px Arial' }} How to create a function component.

// albel className="label" id="lbl">{props.lbl}</a>// label>

// clabel className="label" id="lbl">{props.lbl}</a>// label>
// div>
// div>
// div>
// button value={props.color} onclick={greetUser}>Colour me {props.color}
// button >
// div>
// div
// d
```



1. What is React?

React is an open-source JavaScript library used for building user interfaces, primarily for single-page applications (SPAs). It was developed by Facebook and allows developers to create reusable UI components, manage state efficiently, and render dynamic content. React uses a virtual DOM (Document Object Model) to optimize performance by minimizing the number of actual DOM manipulations. This results in faster updates and better user experience.

2. What do you understand by React component and what command do you use to create a React component with or without a property?

A React component is a fundamental building block in React applications. It can either be a function or a class that returns JSX (JavaScript XML) to represent the UI elements. Components can accept input called "props" (properties) which allow them to be customized.

Without properties: You can create a simple functional component like this:

```
jsx
Copy code
function MyComponent() {
 return <div>Hello, World!</div>;
}
With properties: You can create a functional component that accepts props:
jsx
Copy code
function MyComponent(props) {
return <div>{props.message}</div>;
}
To create a React component, the following command is typically used if you're using Create
React App:
bash
Copy code
npx create-react-app my-app
You can then create the component manually in a new file (e.g., MyComponent.js).
```

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

To render the MyReact component in a React app, you will use the following code in your main App.js or a separate render file:

```
jsx
Copy code
import React from 'react';
import ReactDOM from 'react-dom';
import MyReact from './MyReact'; // Assuming the component is in MyReact.js
ReactDOM.render(
 <MyReact />,
 document.getElementById('root')
);
Alternatively, if using JSX within App.js, the component would be rendered as follows:
jsx
Copy code
import MyReact from './MyReact';
function App() {
 return (
  <div>
   <MyReact />
  </div>
);
}
```

export default App;

4. Suppose the MyReact Component has a property heading, write down the code that could be used to render the MYReact Component and pass the message to the property heading as "this is my first element".

To pass the heading property to the MyReact component, you would render it as shown below:

```
jsx
Copy code
import React from 'react';
function MyReact(props) {
return <h1>{props.heading}</h1>;
}
export default MyReact;
// In the main App.js file:
import MyReact from './MyReact';
function App() {
 return (
  <div>
   <MyReact heading="This is my first element" />
  </div>
);
}
```

```
export default App;
5. Observe this code and answer the questions below:
jsx
Copy code
<AppColor heading="This is first element" lbl="Name :" color="green"/>
a. What is the name of the React Component?
The name of the React component is AppColor.
b. How many properties does this component use?
The component uses three properties: heading, lbl, and color.
6. Look at the following Code:
jsx
Copy code
function GreetingElementwithProp(props) {
 return (
  <div className="App">
   <h1>Welcome, {props.studentname}</h1>
  </div>
);
}
export default ??????
To export the function correctly, replace ?????? with GreetingElementwithProp:
jsx
Copy code
export default GreetingElementwithProp;
```

7. Add a function that takes two properties as numbers, adds these numbers on the click event of the button, and displays the sum.

Here's the code for the component that adds two numbers and displays the sum when a button is clicked:

```
jsx
Copy code
import React, { useState } from 'react';
function AddNumbers(props) {
 const [sum, setSum] = useState(0);
 const handleAdd = () => {
  const total = props.num1 + props.num2;
  setSum(total);
 };
 return (
  <div>
   <button onClick={handleAdd}>Add Numbers
   <h2>Sum: {sum}</h2>
  </div>
);
}
export default AddNumbers;
// In your main component (App.js)
```