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Id nu 111568

Assignment 2

1

```
Command Prompt
Microsoft Windows [Version 10.0.19042.1165]
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C:\Users\solom>cd lesson2

C:\Users\solom\lesson2>npx create-react-app myapp

Creating a new React app in C:\Users\solom\lesson2\myapp.
Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

added 1923 packages, and audited 1924 packages in 1m
147 packages are looking for funding
  run `npm fund` for details
10 moderate severity vulnerabilities

To address all issues, run:
  npm audit fix

Run `npm audit` for details.

Initialized a git repository.
Installing template dependencies using npm...
added 56 packages, and audited 1980 packages in 8s
148 packages are looking for funding
  run `npm fund` for details
10 moderate severity vulnerabilities

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.
Removing template package using npm...

removed 1 package, and audited 1979 packages in 4s
148 packages are looking for funding
  run `npm fund` for details
10 moderate severity vulnerabilities

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force
```

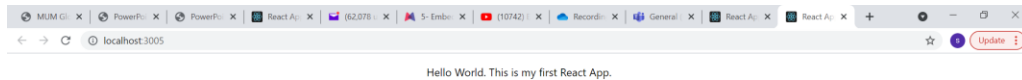
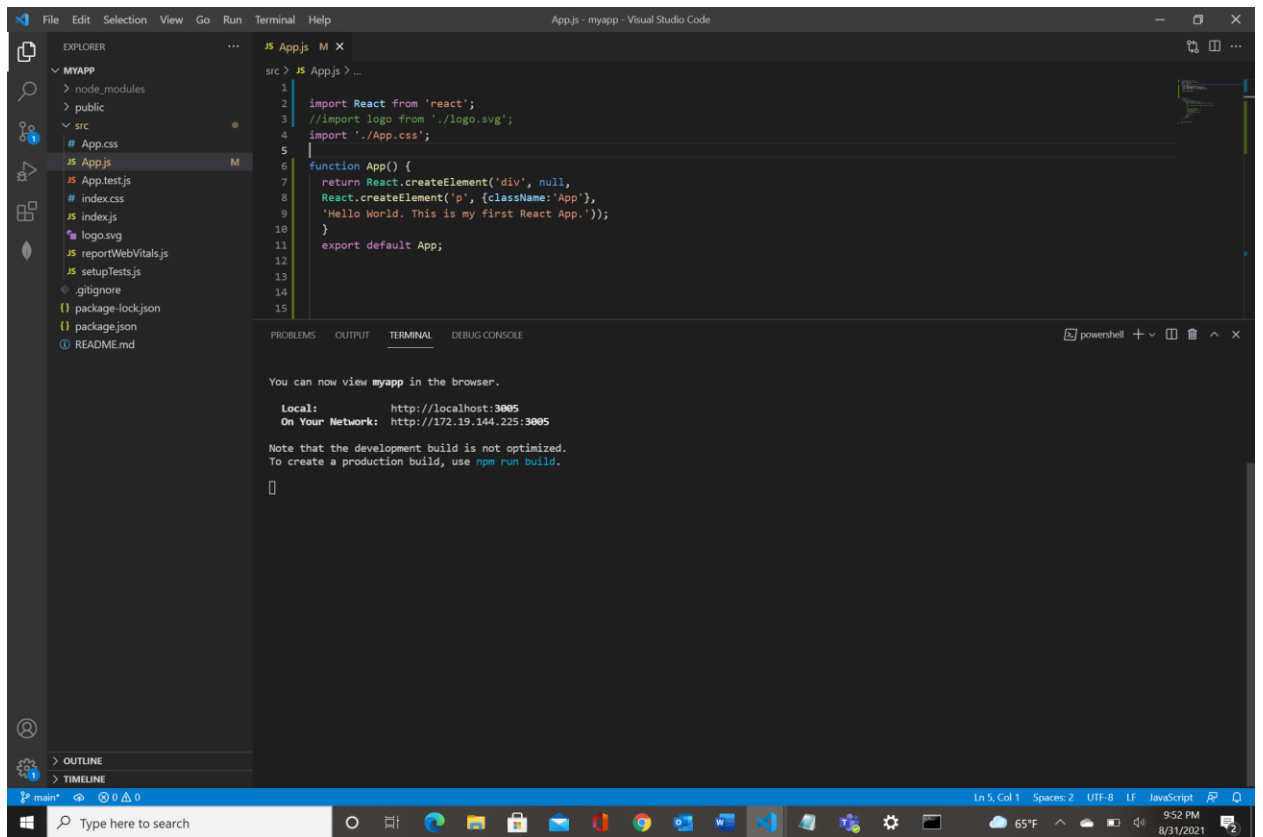
```
Windows PowerShell
Compiled successfully!

You can now view myapp in the browser.

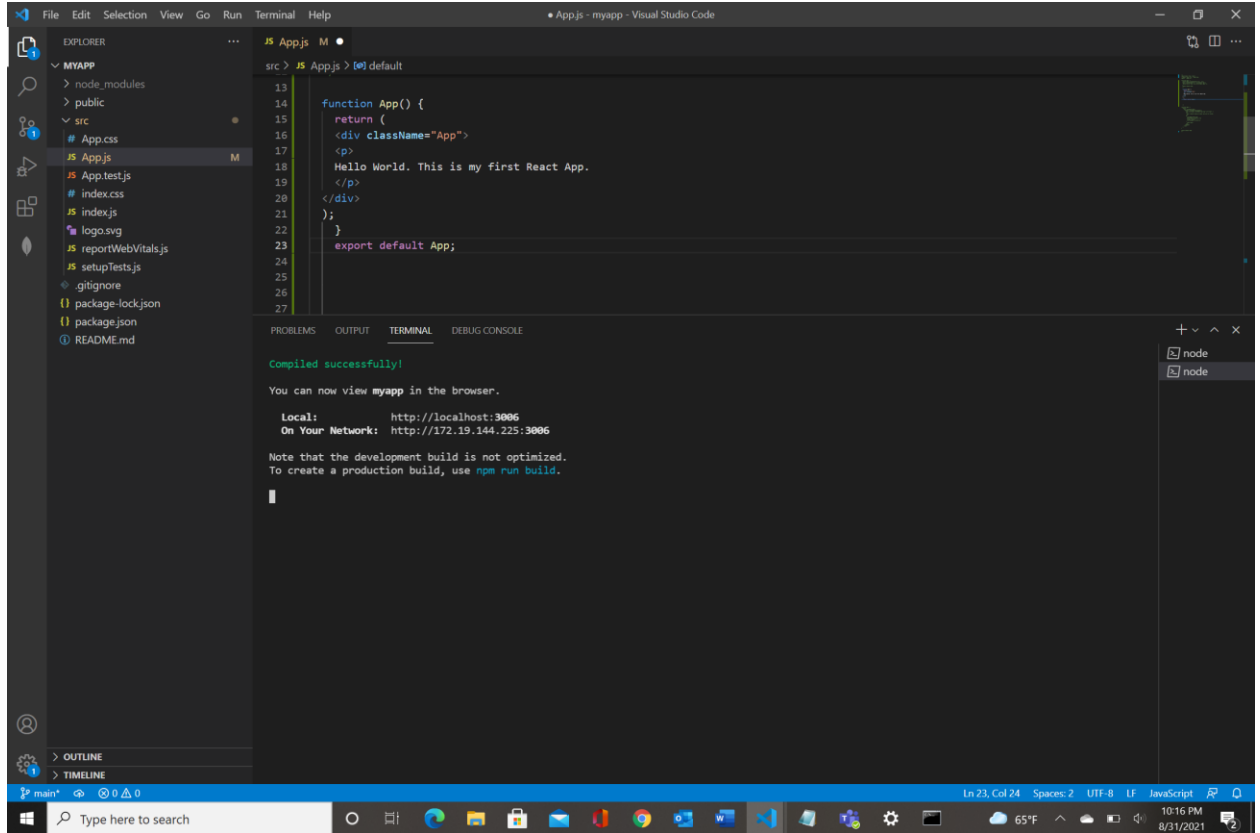
Local:      http://localhost:3002
On Your Network:  http://172.19.144.225:3002

Note that the development build is not optimized.
To create a production build, use npm run build.
```

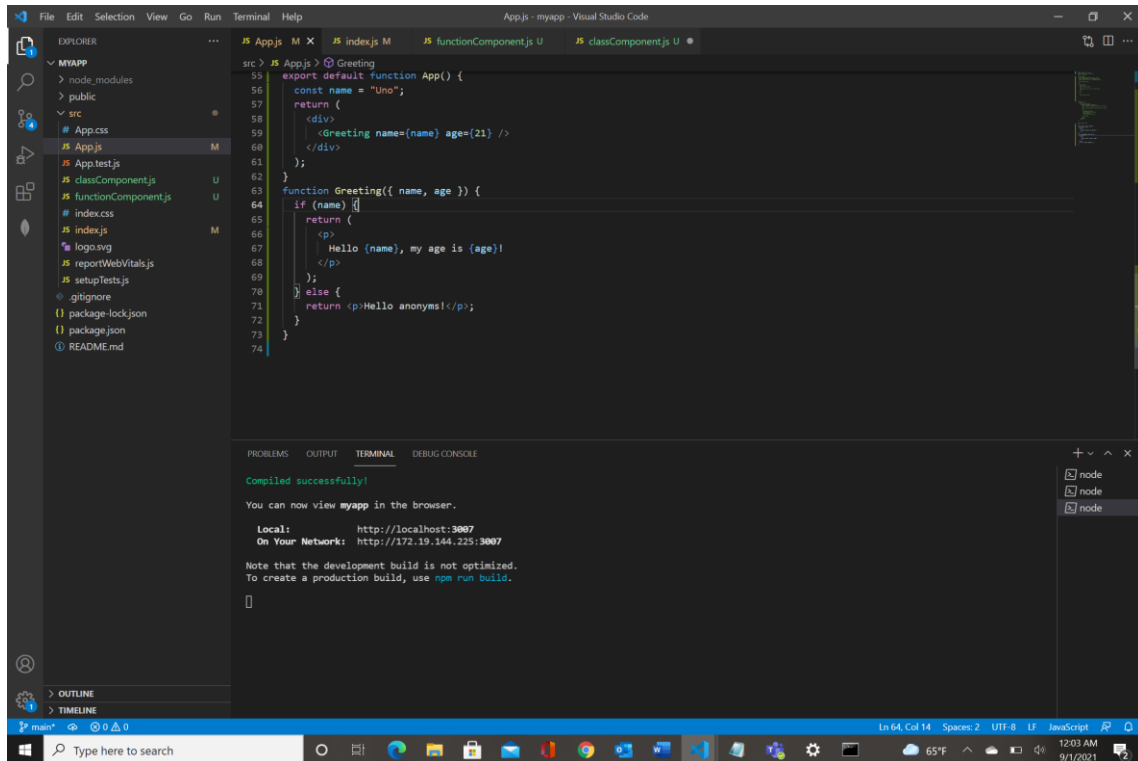
2. Create your first react element. Refer the **React.createElement** example slide.



3. Embed Expressions in JSX.



4. Return an JSX as expression in a function. **Greeting** – that gets name as a prop. Do destructuring.



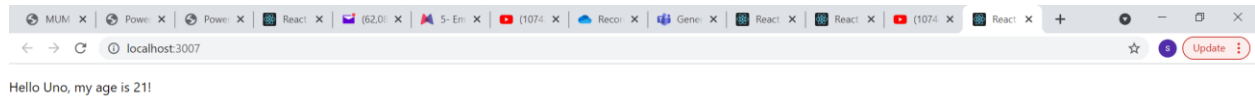
The screenshot shows a Visual Studio Code editor with a project named 'myapp'. The Explorer sidebar on the left shows the file structure: 'node_modules', 'public', 'src' (containing 'App.css', 'App.js', 'App.test.js', 'classComponent.js', 'functionComponent.js', 'index.css', 'index.js', 'logo.svg', 'reportWebVitals.js', 'setupTests.js', '.gitignore', 'package-lock.json', 'package.json', and 'README.md'). The main editor displays the 'App.js' file with the following code:

```
src > JS App.js > Greeting
55 export default function App() {
56   const name = "Uno";
57   return (
58     <div>
59       <Greeting name={name} age={21} />
60     </div>
61   );
62 }
63
64 function Greeting({ name, age }) {
65   if (name) {
66     return (
67       <p>
68         Hello {name}, my age is {age}!
69       </p>
70     );
71   } else {
72     return <p>Hello anonyms!</p>;
73   }
74 }
```

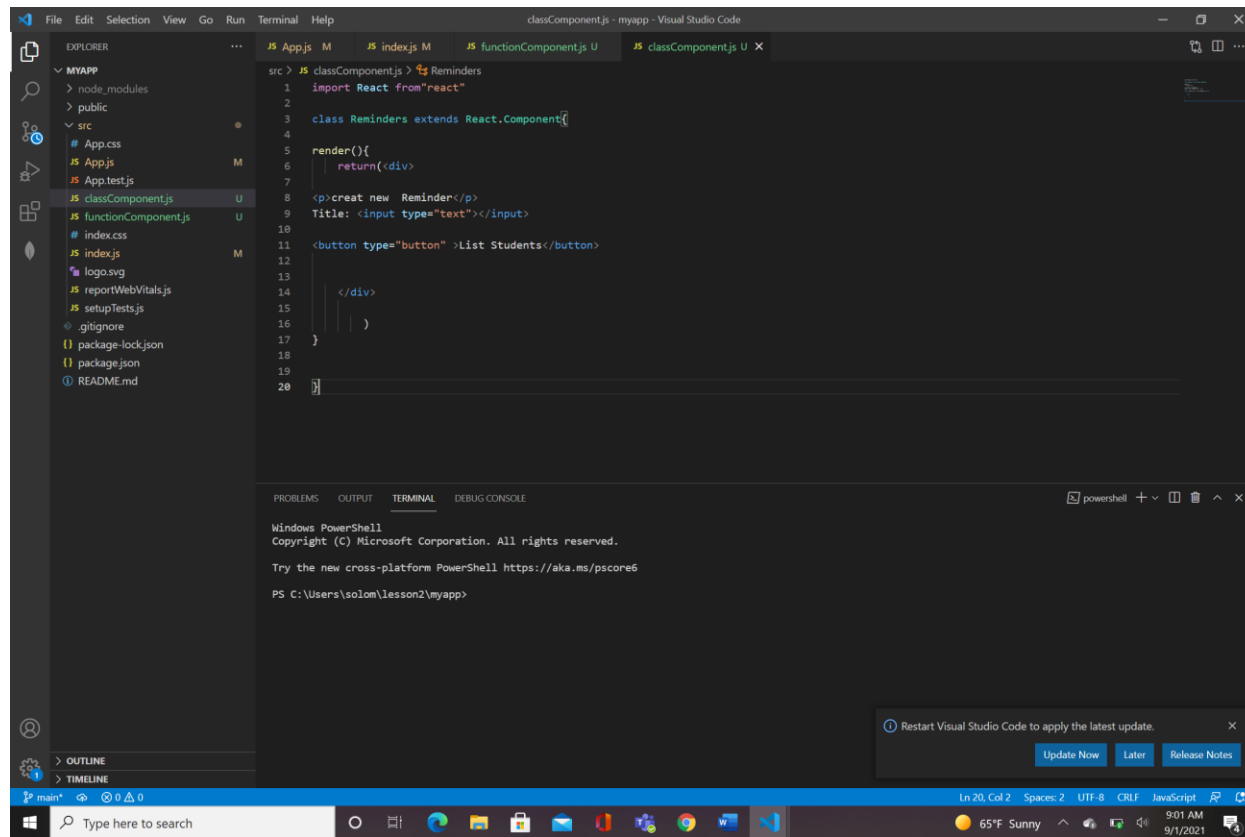
The bottom panel shows the 'TERMINAL' output:

```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Compiled successfully!
You can now view myapp in the browser.
Local: http://localhost:3007
On Your Network: http://172.19.144.225:3007
Note that the development build is not optimized.
To create a production build, use npm run build.
```

The status bar at the bottom indicates the cursor is at line 64, column 14, in a file named 'App.js' with 2 spaces, using UTF-8 encoding and the JavaScript language.

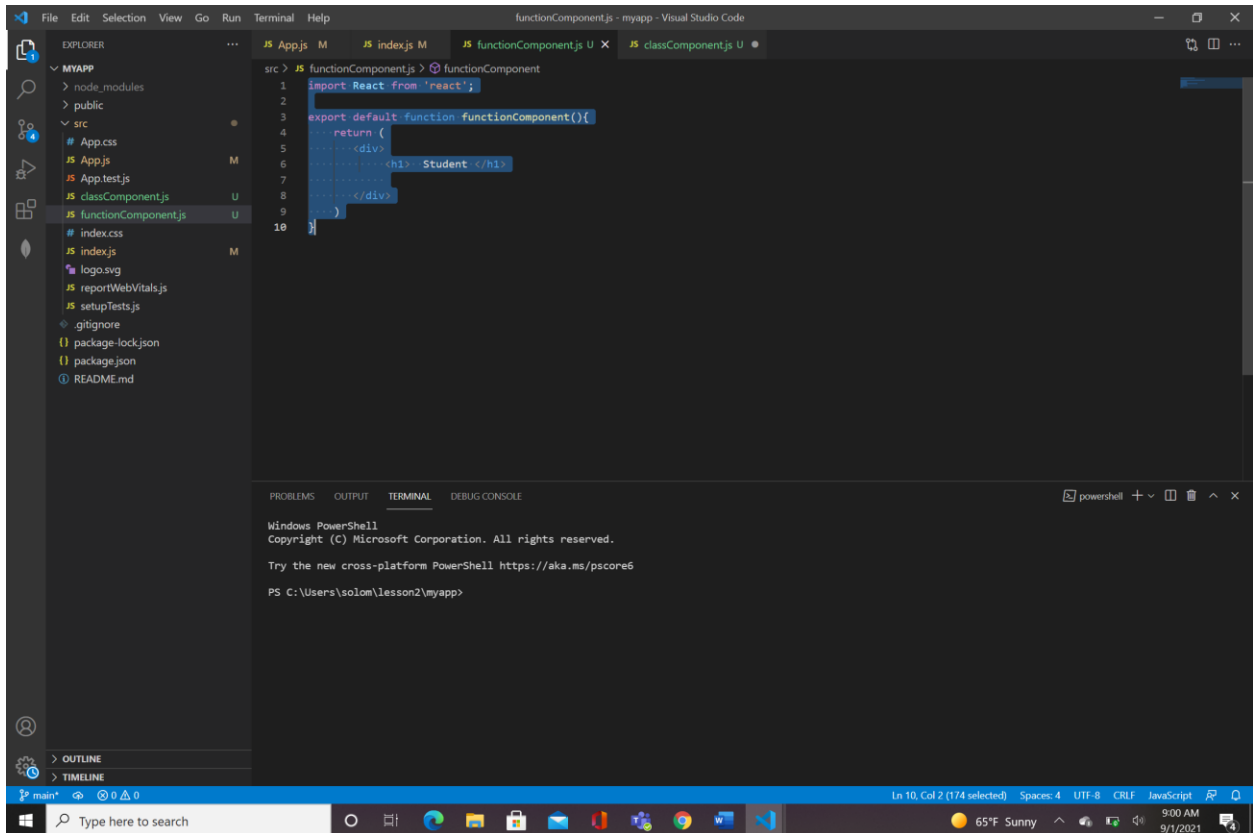


26. 5 Create your react element with JSX. Implement:
 - a. Returning a group of elements with div
 - b. Returning a group of elements with array
 - c. Returning a group of elements with fragment
 - d. Implement the table example with fragment. Slides are Fragment motivation, Error without Fragment, Solution with Fragment.
27. Declare a component as a
 - a. Class



b.

b.function.



Research

1. Read the lecture thoroughly. In your opinion, what are the 3 main points? Please share.

- React environment set up

- component

- Function and class component

2. Do a research about differences between a functional component and a class-based component and share your findings.

A functional component is just a plain JavaScript function that accepts props as an argument and returns a React element. A class component requires you to extend from React. Component and create a render function which returns a React element

There is no render method used in functional components. class component It must have the render() method returning HTML.

A functional component Also known as Stateless components as they simply accept data and display them in some form, that they are mainly responsible for rendering UI. class component Also known as Stateful components because they implement logic and state.

