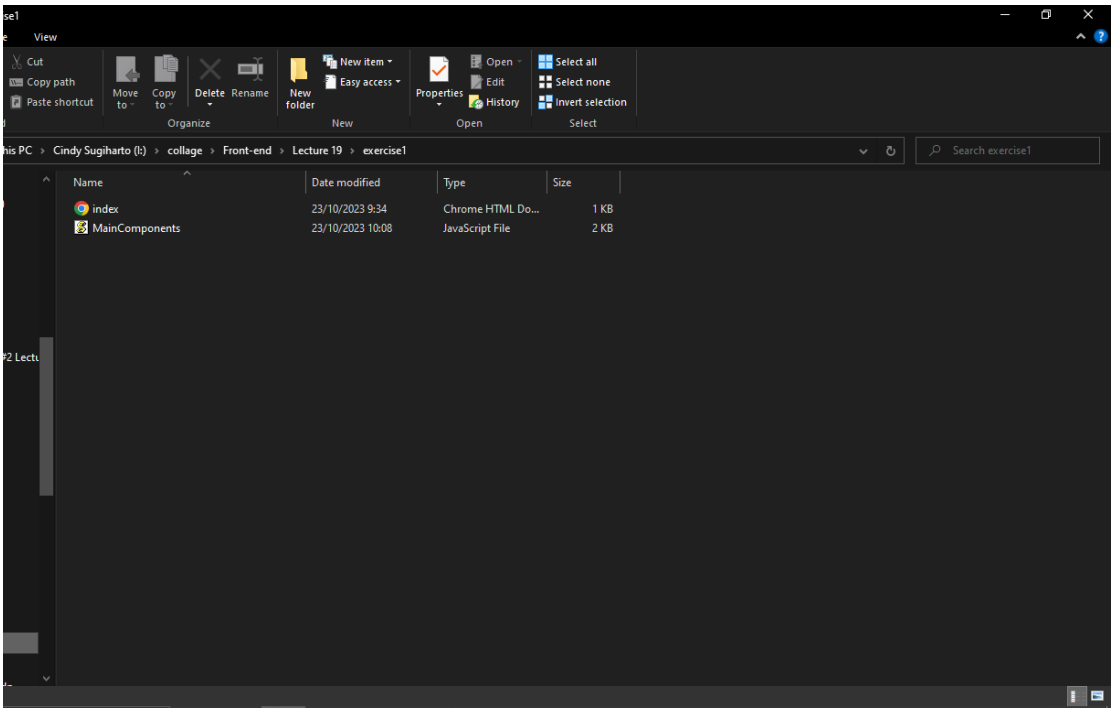
Sugiharto, Amelia C

Front-End Web Development

Lecture19 - ReactJS Events Management & Conditionals

#Exercise1

Langkah 1: Buatlah folder baru untuk memasukkan file index.html dan MainComponents.js



Langkah 2: Ketikan code index.html dan MainComponents.js dan save lalu masukkan pada folder baru tadi

I:\collage\Front-end\Lecture 19\exercise1\index.html - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Calculator</title>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <script src="https://unpkg.com/react@16/umd/react.production.min.js"></script>
    <script src="https://unpkg.com/react-dom@16/umd/react-dom.production.min.js"></script>
    <script src="https://unpkg.com/babel-standalone@6.15.0/babel.min.js"></script>
    <script src="./MainComponents.js" type="text/babel"></script>

</head>
<body>
    <div id="app"></div>
</body>
</html>
```

Hyper Text Markup Language file | length : 540 lines : 16 | Ln : 16 Col : 8 Pos : 541 | Windows (CR LF) | UTF-8 | INS

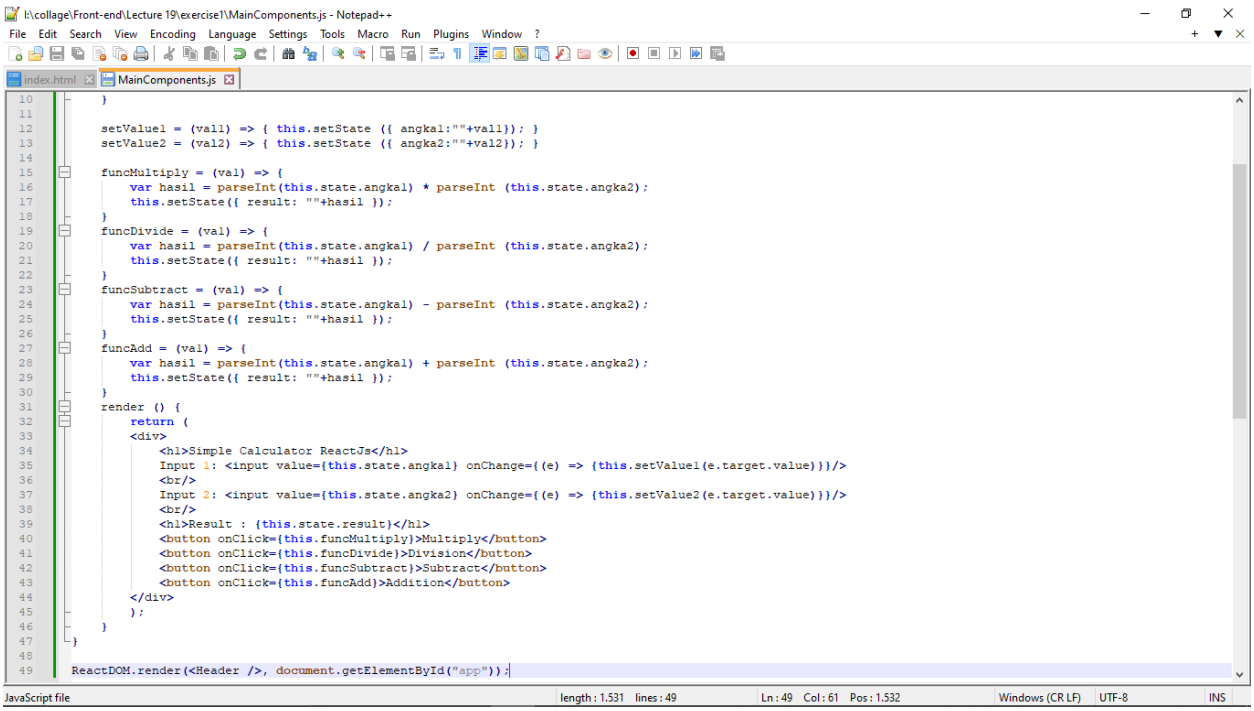
I:\collage\Front-end\Lecture 19\exercise1\MainComponents.js - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

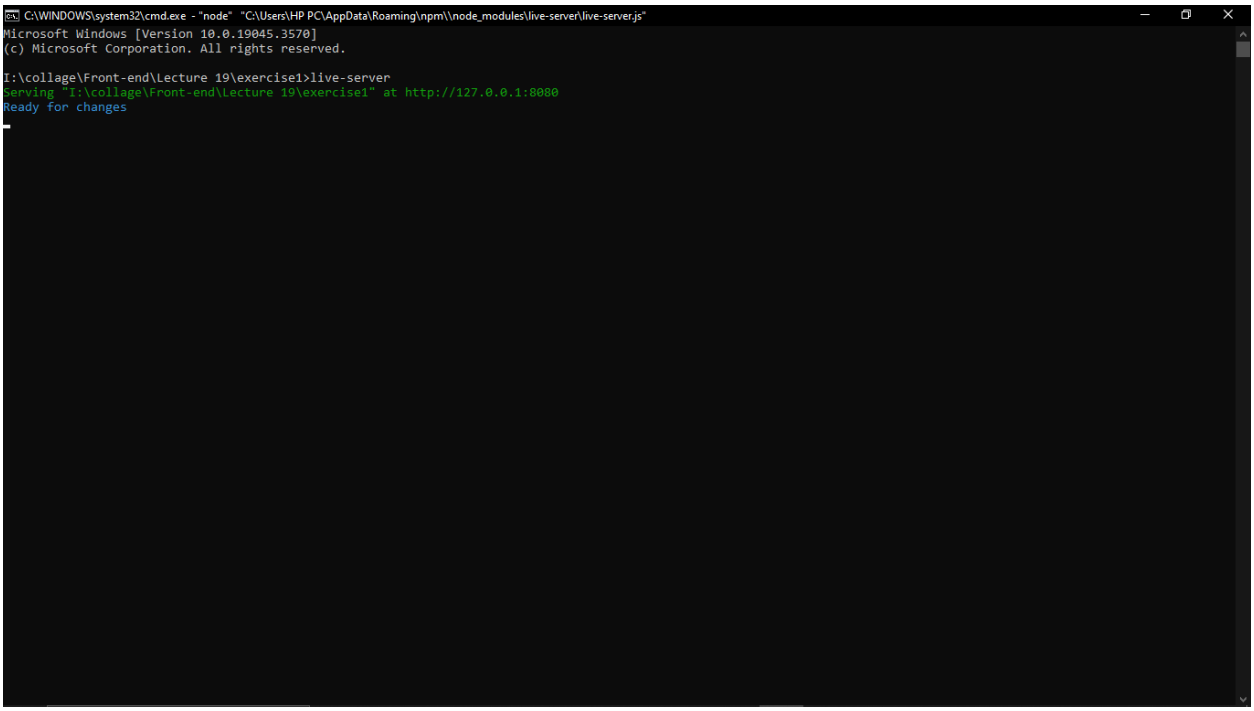
index.html MainComponents.js

```
class Header extends React.Component {
    constructor () {
        super();
        //membuat objek state
        this.state = {
            angka1: "0",
            angka2: "0",
            result: "0"
        };
    }

    setValue1 = (val1) => { this.setState ({ angka1:""+val1}); }
    setValue2 = (val2) => { this.setState ({ angka2:""+val2}); }

    funcMultiply = (val) => {
        var hasil = parseInt(this.state.angka1) * parseInt (this.state.angka2);
        this.setState({ result: ""+hasil });
    }
    funcDivide = (val) => {
        var hasil = parseInt(this.state.angka1) / parseInt (this.state.angka2);
        this.setState({ result: ""+hasil });
    }
    funcSubtract = (val) => {
        var hasil = parseInt(this.state.angka1) - parseInt (this.state.angka2);
        this.setState({ result: ""+hasil });
    }
    funcAdd = (val) => {
        var hasil = parseInt(this.state.angka1) + parseInt (this.state.angka2);
        this.setState({ result: ""+hasil });
    }
    render () {
        return (
        <div>
            <h1>Simple Calculator ReactJs</h1>
            Input 1: <input value={this.state.angka1} onChange={(e) => {this.setValue1(e.target.value)}}/>
            <br/>
            Input 2: <input value={this.state.angka2} onChange={(e) => {this.setValue2(e.target.value)}}/>
            <br/>
            <h1>Result : {this.state.result}</h1>
            <button onClick={this.funcMultiply}>Multiply</button>
```

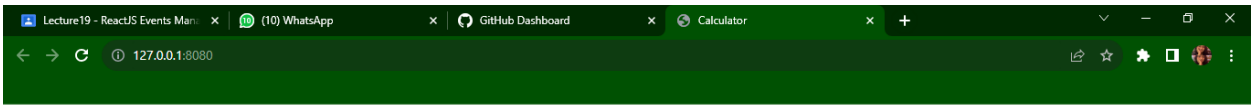
JavaScript file | length : 1.531 lines : 49 | Ln : 49 Col : 61 Pos : 1.532 | Windows (CR LF) | UTF-8 | INS



Langkah 3: Kemudian run cmd pada folder yang berisi 2 file di atas dan ketik live-server lalu enter.



Hasil Ouptnya:

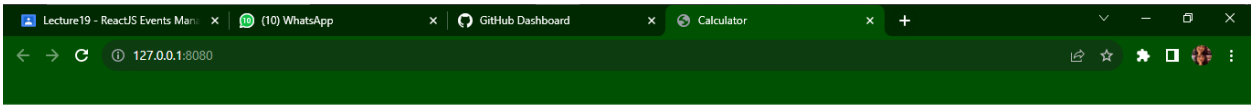


Simple Calculator ReactJs

Input 1: 8
Input 2: 2

Result : 16

Multiply | Division | Subtract | Addition

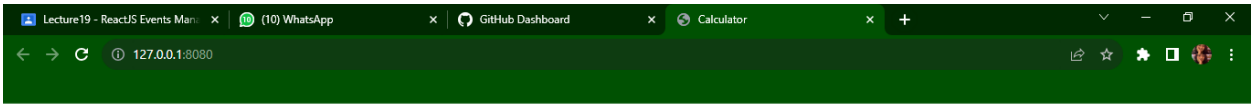


Simple Calculator ReactJs

Input 1: 8
Input 2: 2

Result : 4

Multiply | Division | Subtract | Addition



Simple Calculator ReactJs

Input 1: 8
Input 2: 2

Result : 6

Multiply | Division | Subtract | Addition

Simple Calculator ReactJs

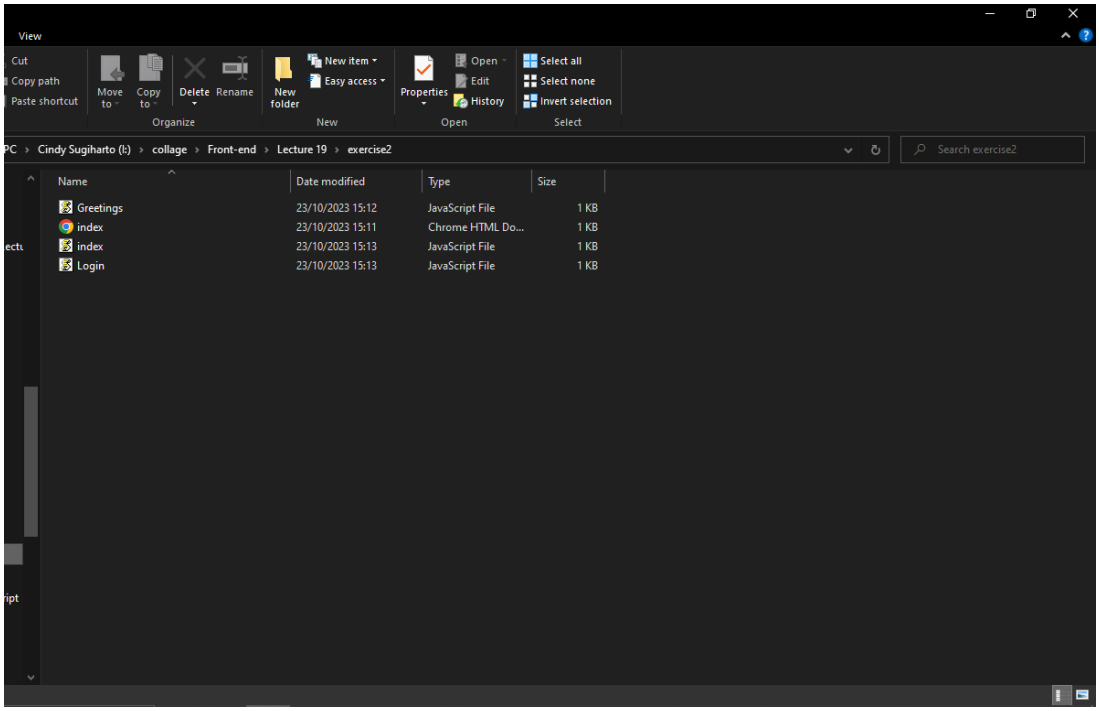
Input 1: 8
Input 2: 2

Result : 10

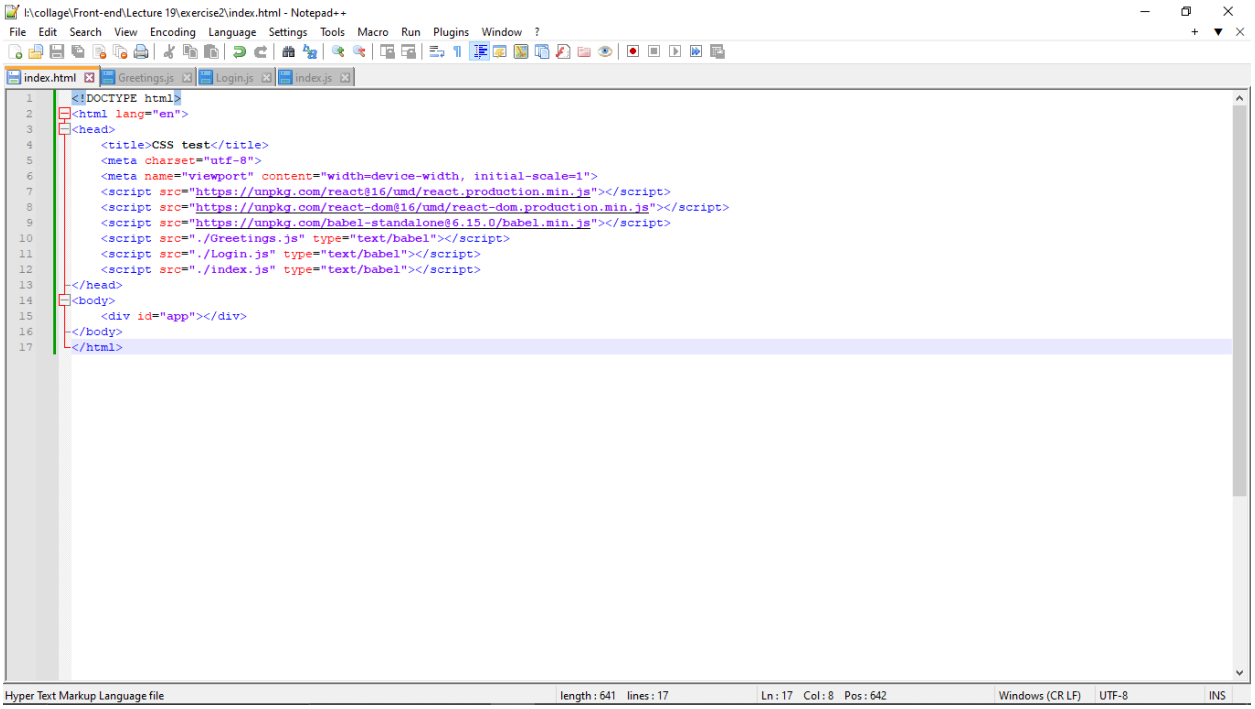
Multiply | Division | Subtract | Addition

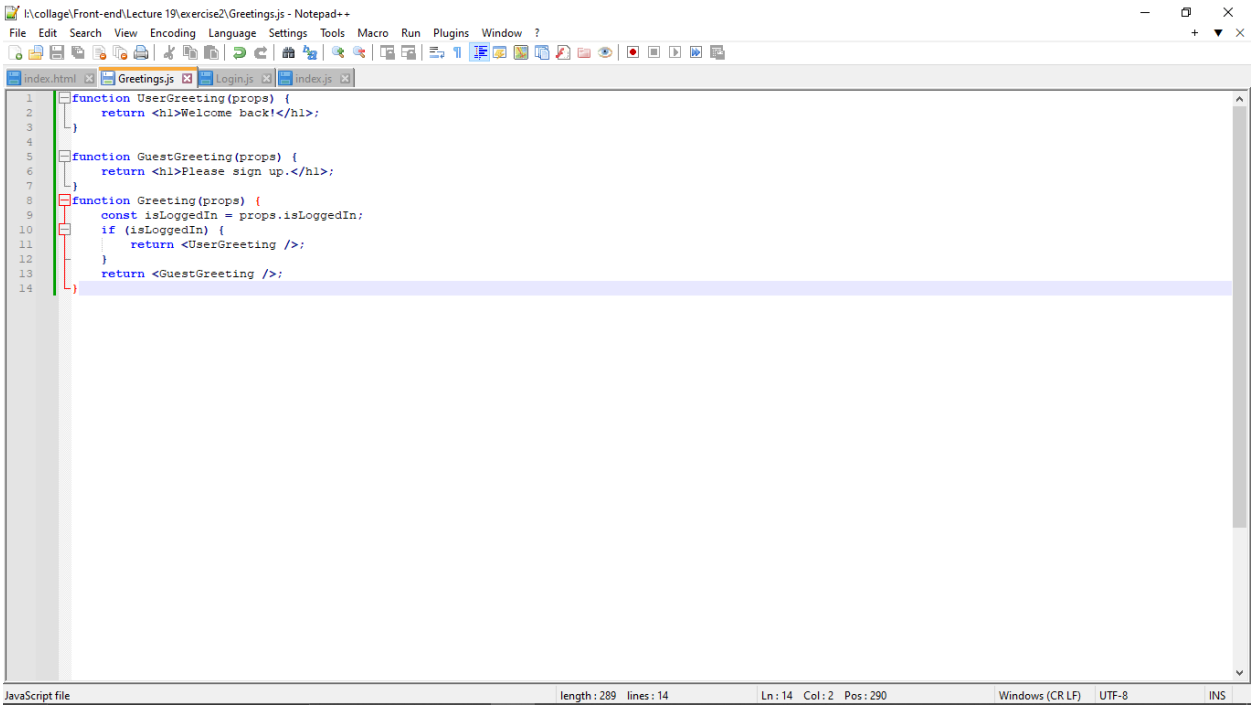
#Exercise2

Langkah 1: Buatlah folder baru untuk memasukkan file index.html, Greetings.js, Login.js dan index.js



Langkah 2: Ketikan code nya lalu save dan masukkan pada folder baru tadi





I:\collage\Front-end\Lecture 19\exercise2\Login.js - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

index.html | Greetings.js | Login.js | index.js

```
function LoginButton(props) {
    return (
        <button onClick={props.onClick}>
            Login
        </button>
    );
}

function LogoutButton(props) {
    return (
        <button onClick={props.onClick}>
            Logout
        </button>
    );
}
```

JavaScript file | length : 220 lines : 15 | Ln : 15 Col : 2 Pos : 221 | Windows (CR LF) | UTF-8 | INS

I:\collage\Front-end\Lecture 19\exercise2\index.js - Notepad++

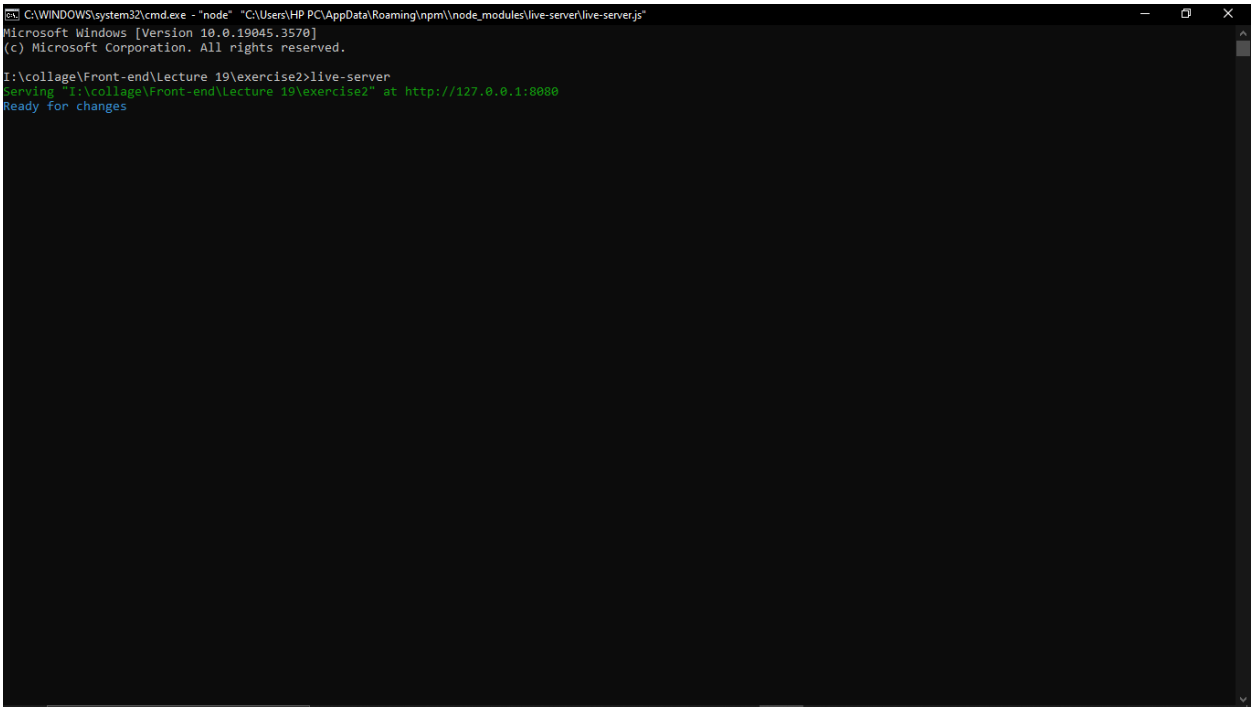
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

index.html | Greetings.js | Login.js | index.js

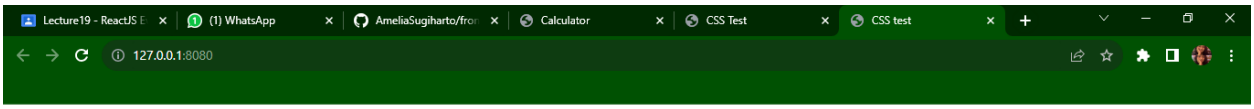
```
class LoginControl extends React.Component {
    constructor (props) {
        super (props);
        this.handleLoginClick= this.handleLoginClick.bind(this);
        this.handleLogoutClick = this.handleLogoutClick.bind(this);
        this.state = {isLoggedIn: false };
    }
    handleLoginClick() {
        this.setState({isLoggedIn: true});
    }
    handleLogoutClick() {
        this.setState({isLoggedIn: false });
    }

    render() {
        const isLoggedIn= this.state.isLoggedIn;
        let button;
        if (isLoggedIn) {
            button= <LogoutButton onClick={this.handleLogoutClick} />;
        } else {
            button= <LoginButton onClick={this.handleLoginClick} />;
        }

        return (
            <div>
                <Greeting isLoggedIn={isLoggedIn} />
                {button}
            </div>
        );
    }
}

ReactDOM.render (<LoginControl />, document.getElementById("app"));
```

JavaScript file | length : 796 lines : 33 | Ln : 33 Col : 68 Pos : 797 | Windows (CR LF) | UTF-8 | INS

Langkah 3: Kemudian run cmd pada folder yang berisi 4 file di atas dan ketik live-server lalu enter.

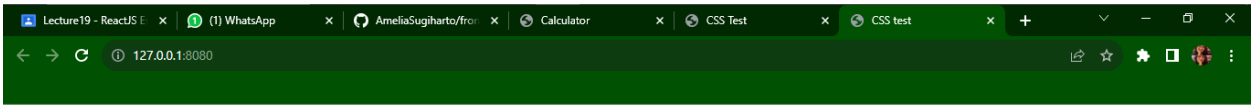


Hasil Output:



Please sign up.

Login



Welcome back!

Logout