

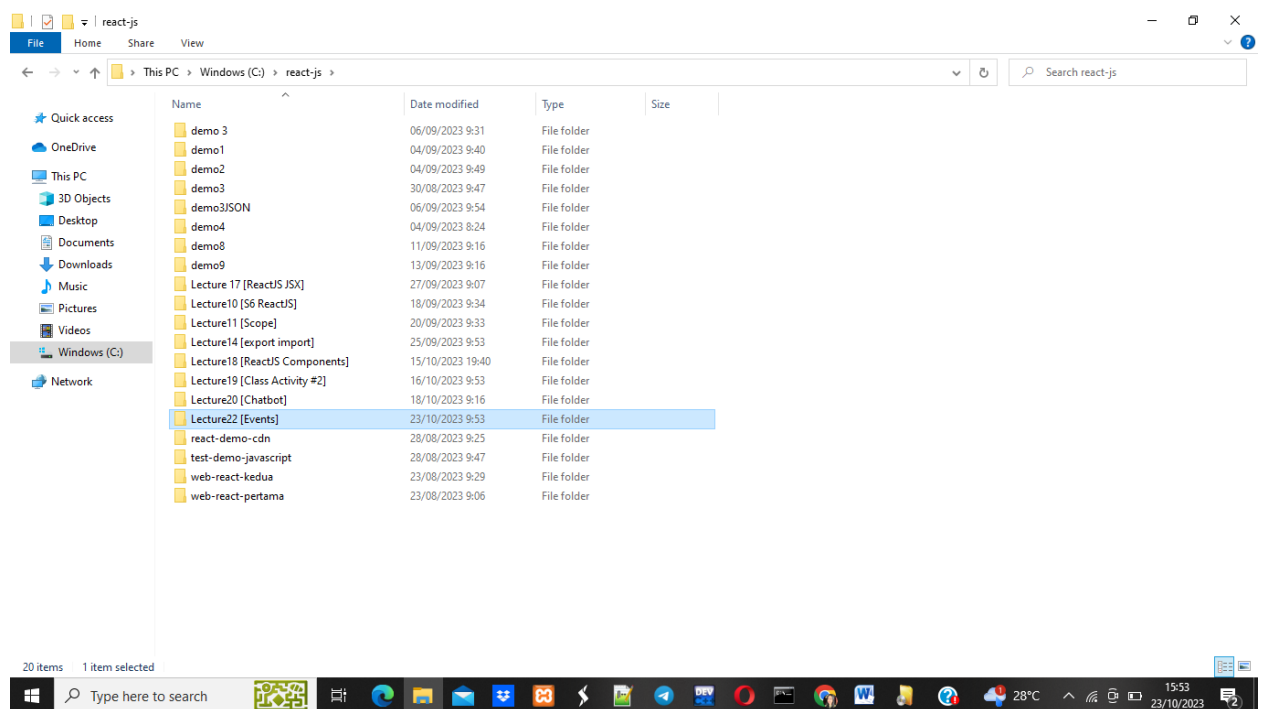
Nama : Rantelinggi, Hana Victoria

Front-End Web Development – B

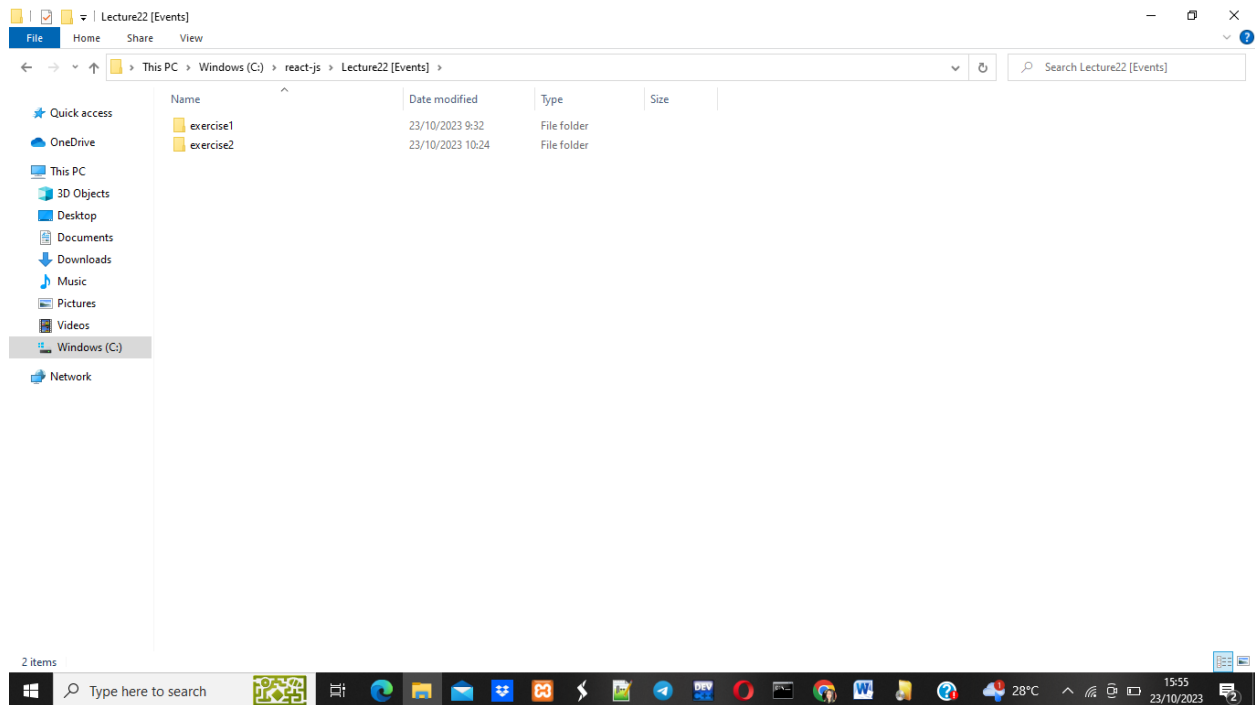
Exercise [Events Management]

- Langkah-langkah menggunakan ReactJS Events Management & Conditionals

Pertama, buat folder baru menggunakan nama folder “**Lecture 22 [Events]**” di directory utama proyek.

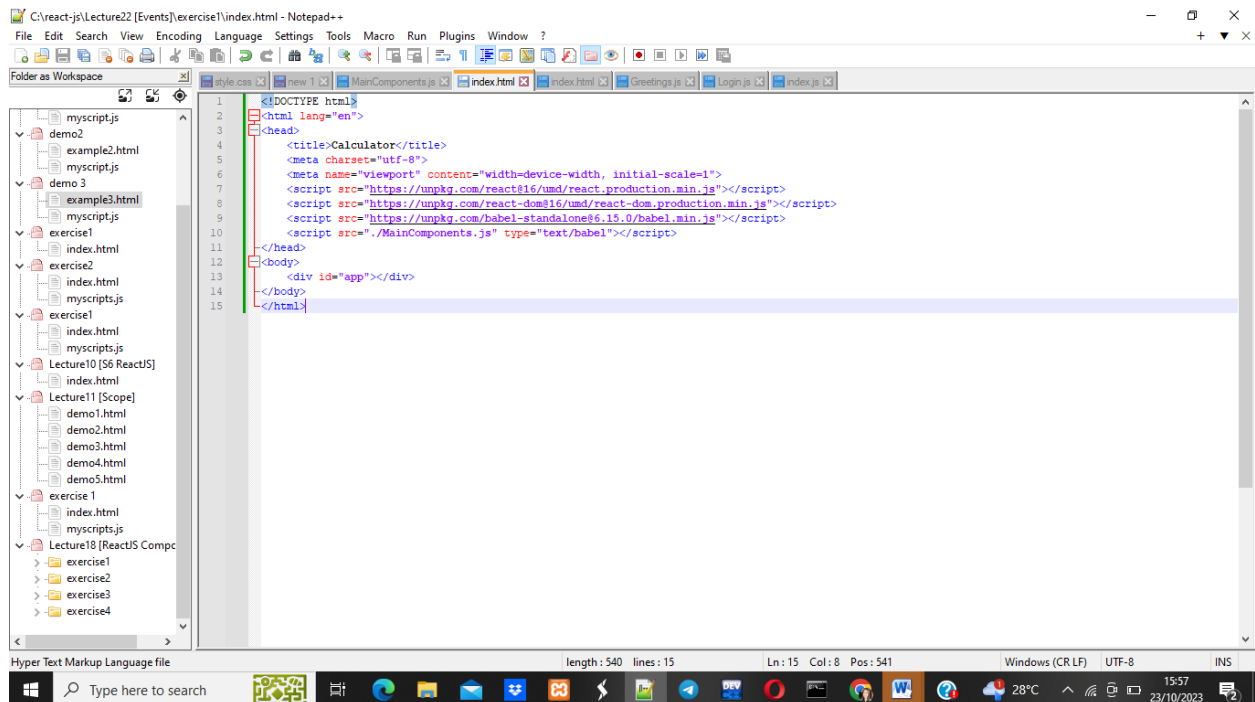


Ada 2 exercise yang akan dibuat

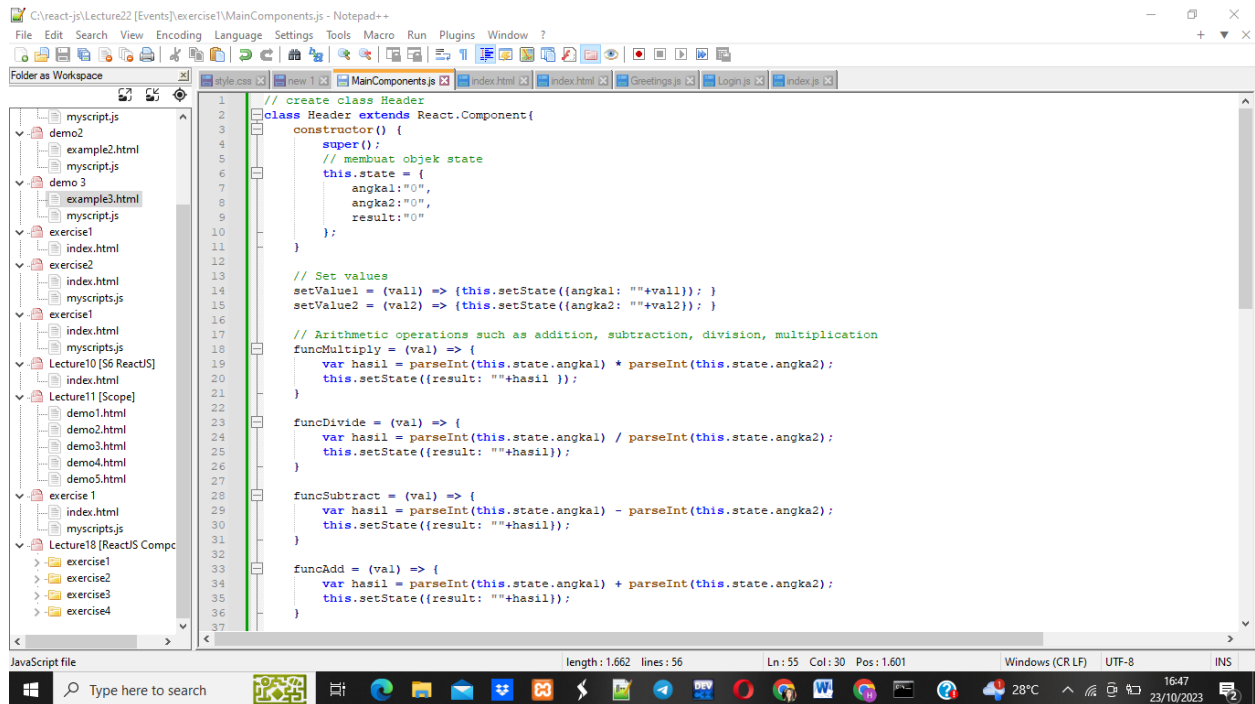


Pertama, kita buat exercise 1. Di dalam exercise 1 ada 2 bagian yaitu “index.html” dan “MainComponents.js”

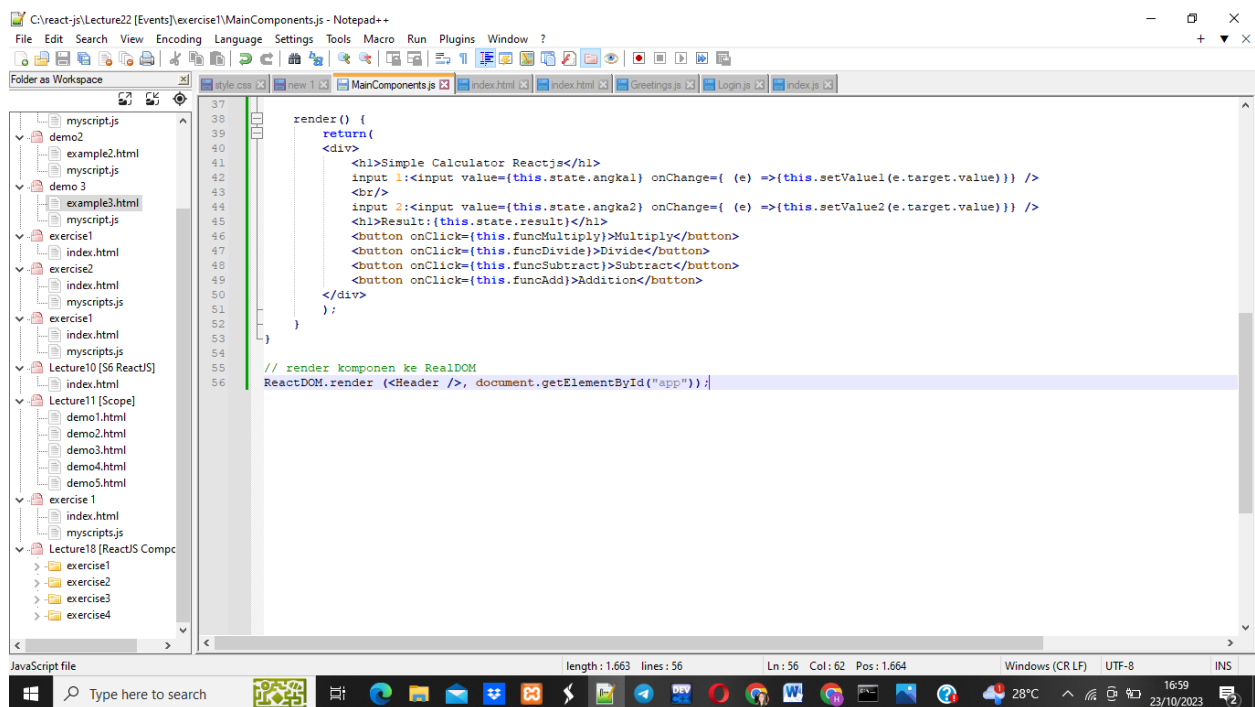
Kita ketik coding HTML. Berikut kode HTML:



Kemudian, kita ketik coding JavaScript. Berikut kode JS:

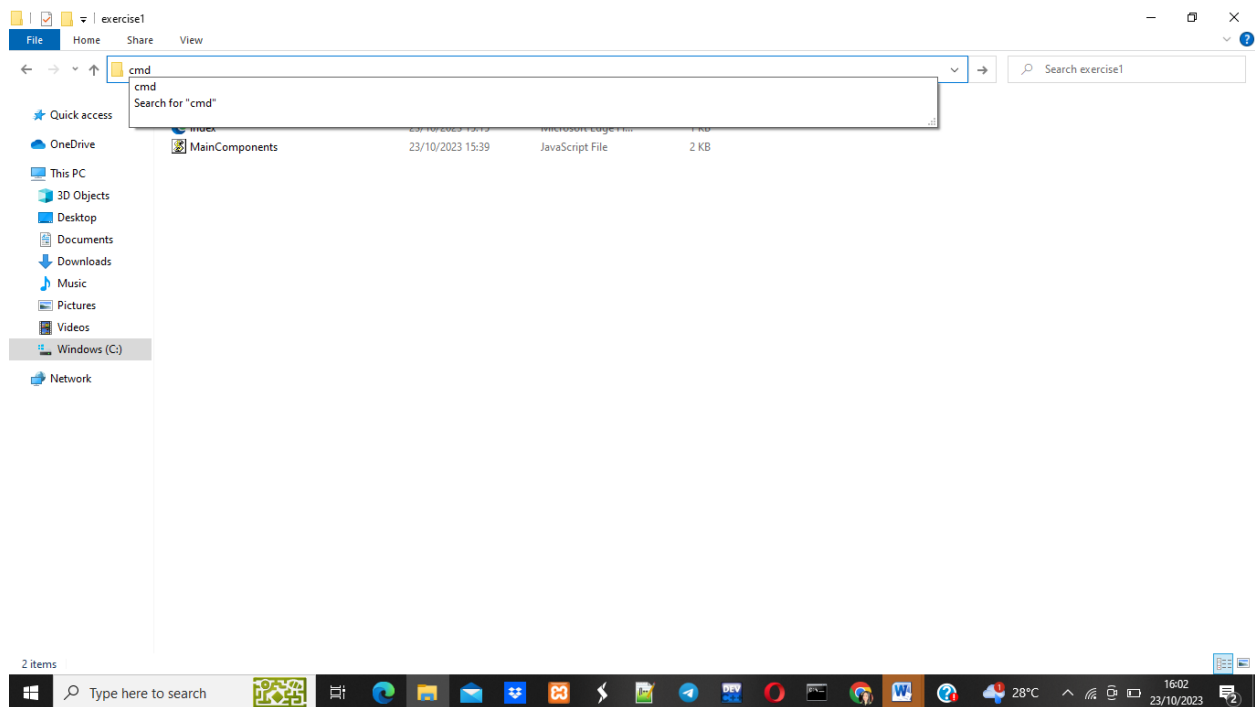


```
1 // create class Header
2 class Header extends React.Component {
3   constructor() {
4     super();
5     // membuat objek state
6     this.state = {
7       angkai: "0",
8       angka2: "0",
9       result: "0"
10    };
11  }
12
13  // Set values
14  setValue1 = (val1) => {this.setState({angkai: ""+val1}); }
15  setValue2 = (val2) => {this.setState({angka2: ""+val2}); }
16
17  // Arithmetic operations such as addition, subtraction, division, multiplication
18  funcMultiply = (val) => {
19    var hasil = parseInt(this.state.angkai) * parseInt(this.state.angka2);
20    this.setState({result: ""+hasil});
21  }
22
23  funcDivide = (val) => {
24    var hasil = parseInt(this.state.angkai) / parseInt(this.state.angka2);
25    this.setState({result: ""+hasil});
26  }
27
28  funcSubtract = (val) => {
29    var hasil = parseInt(this.state.angkai) - parseInt(this.state.angka2);
30    this.setState({result: ""+hasil});
31  }
32
33  funcAdd = (val) => {
34    var hasil = parseInt(this.state.angkai) + parseInt(this.state.angka2);
35    this.setState({result: ""+hasil});
36  }
37}
```

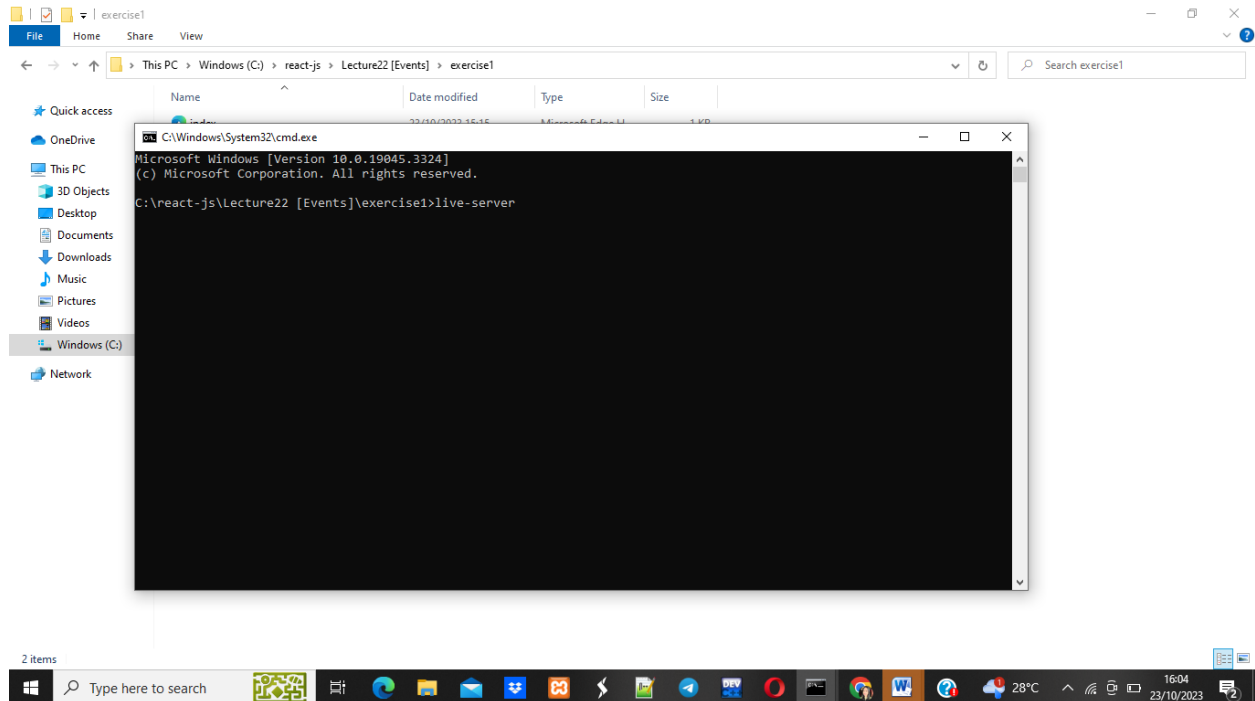


```
37
38
39 render() {
40   return(
41     <div>
42       <h1>Simple Calculator ReactJS</h1>
43       <input type="text" value={this.state.angkai} onChange={this.handleChange1} />
44       <br/>
45       <input type="text" value={this.state.angka2} onChange={this.handleChange2} />
46       <div>
47         <button onClick={this.funcMultiply}>Multiply</button>
48         <button onClick={this.funcDivide}>Divide</button>
49         <button onClick={this.funcSubtract}>Subtract</button>
50         <button onClick={this.funcAdd}>Addition</button>
51       </div>
52     </div>
53   );
54 }
55
56 // render komponen ke RealDOM
ReactDOM.render(<Header />, document.getElementById("app"));
```

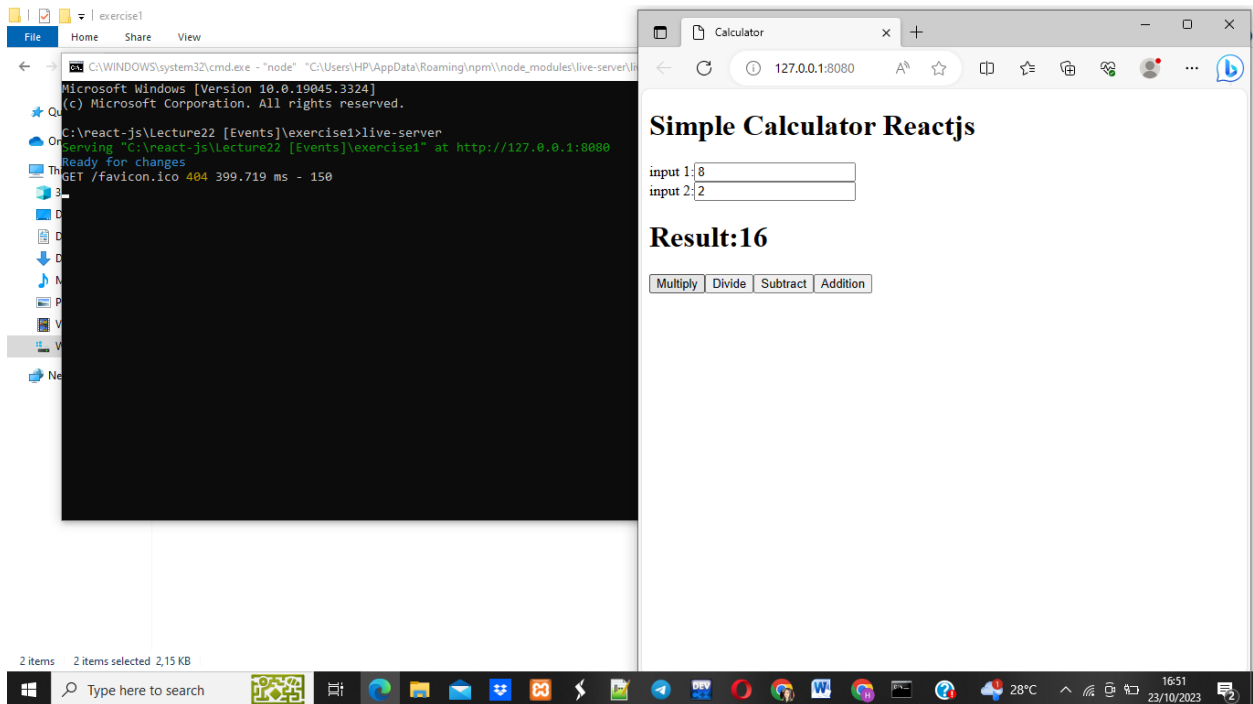
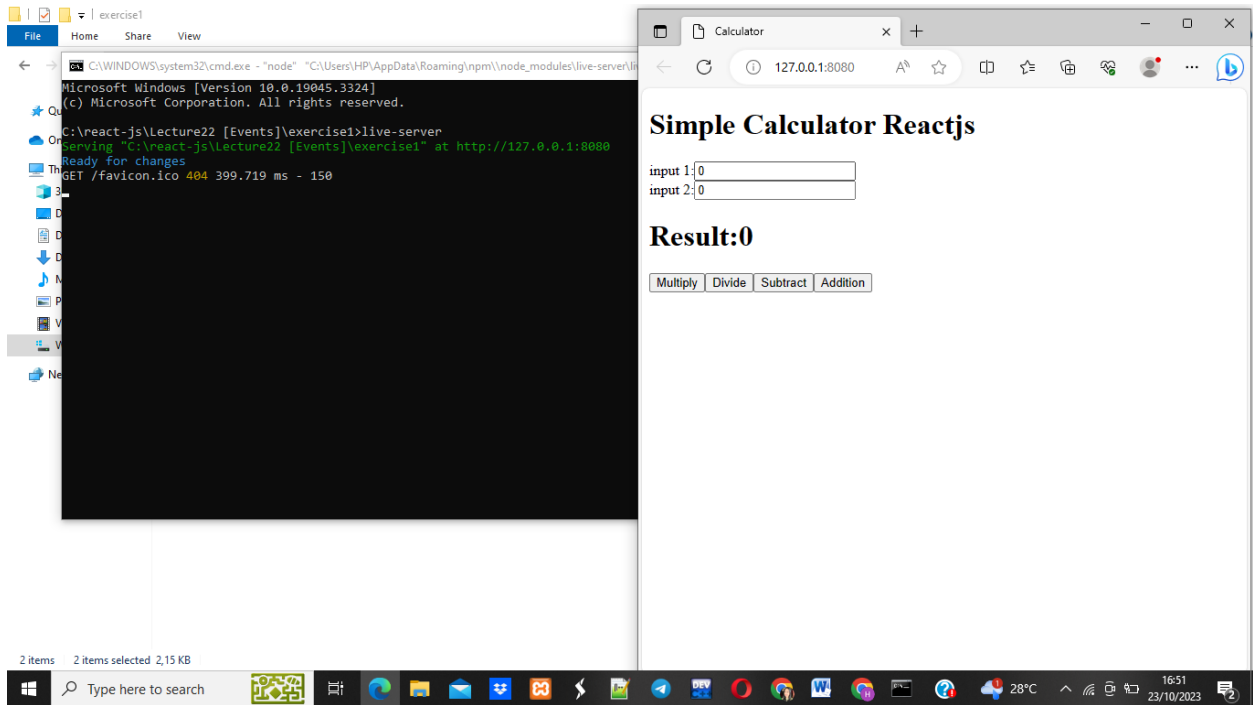
Lalu, untuk melihat outputnya ketik cmd pada direktori diatas seperti ini:

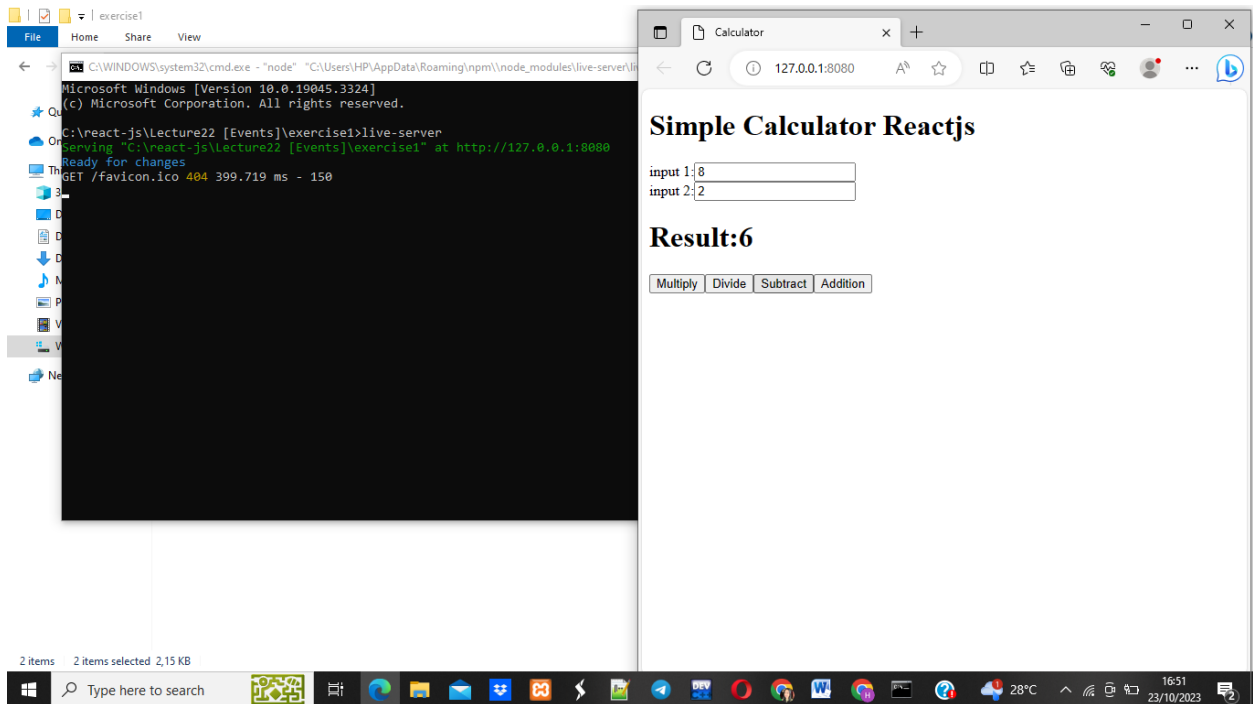
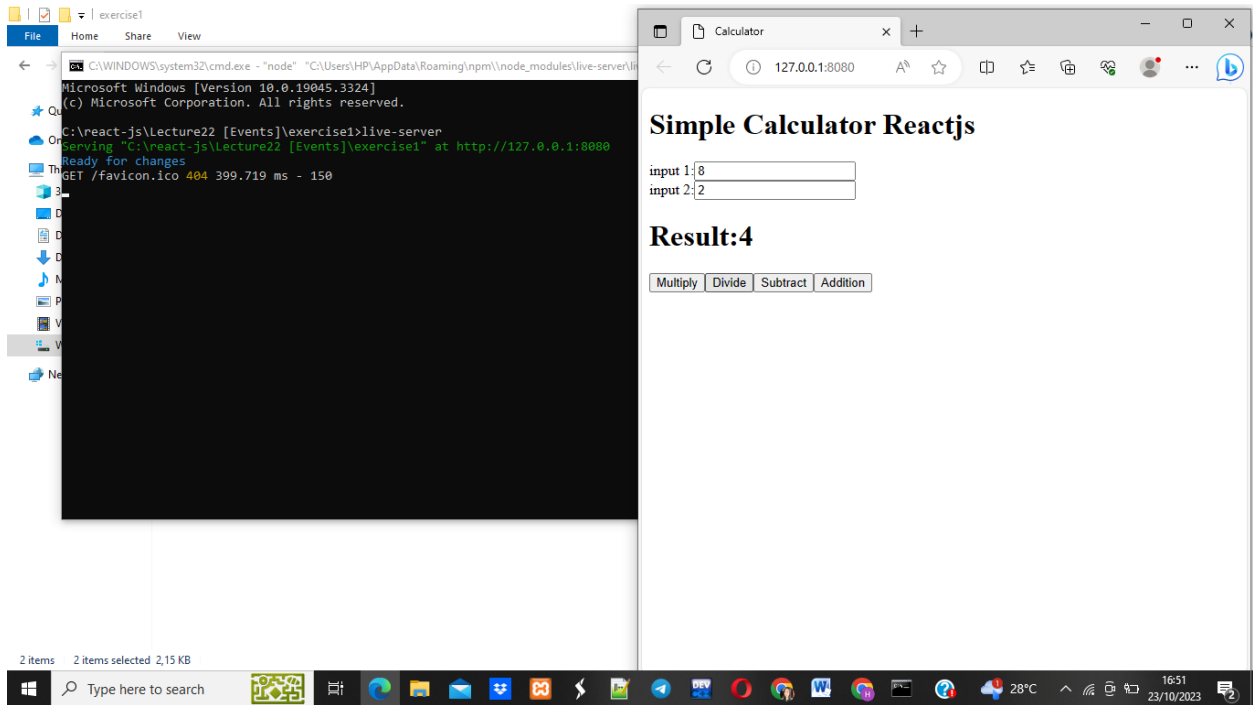


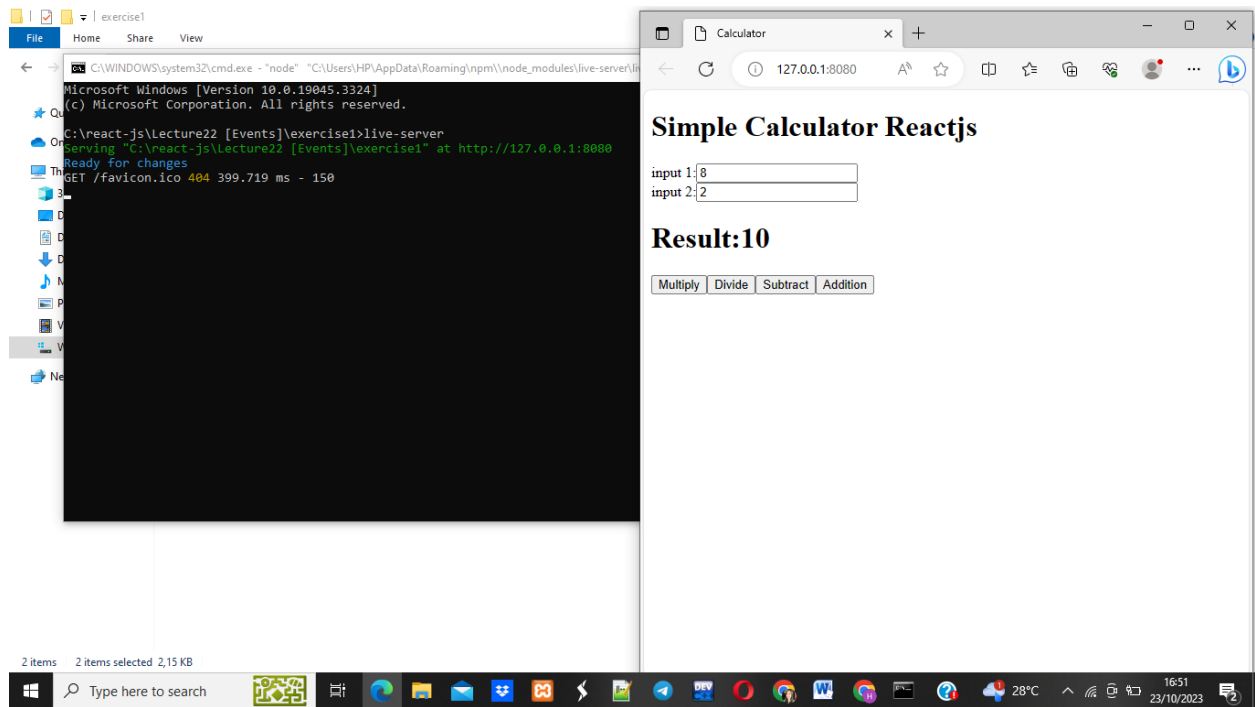
Dan akan terlihat seperti ini dan ketik live-server



Maka akan ready for changes dan otomatis menampilkan hasil seperti ini:

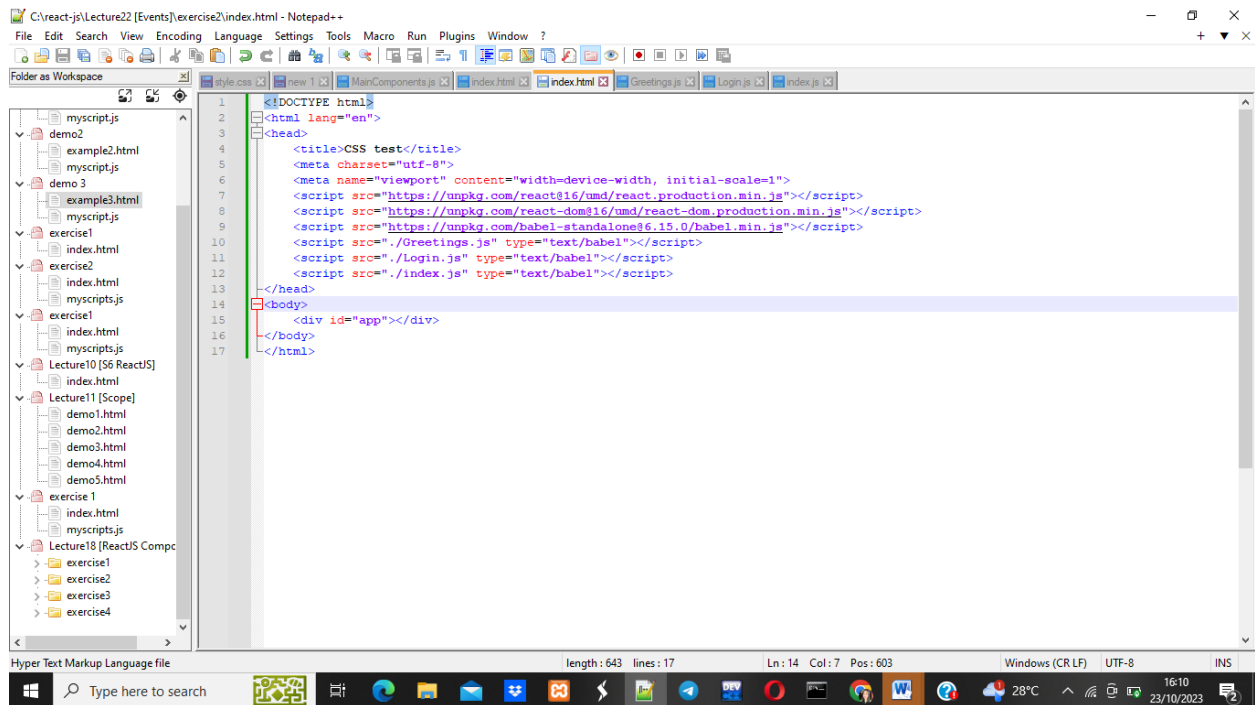






Lalu, kita buat exercise 2. Pada exercise 2 terdapat 4 bagian yaitu “index.html” , “Greetings.js”, “index.js” dan “Login.js”

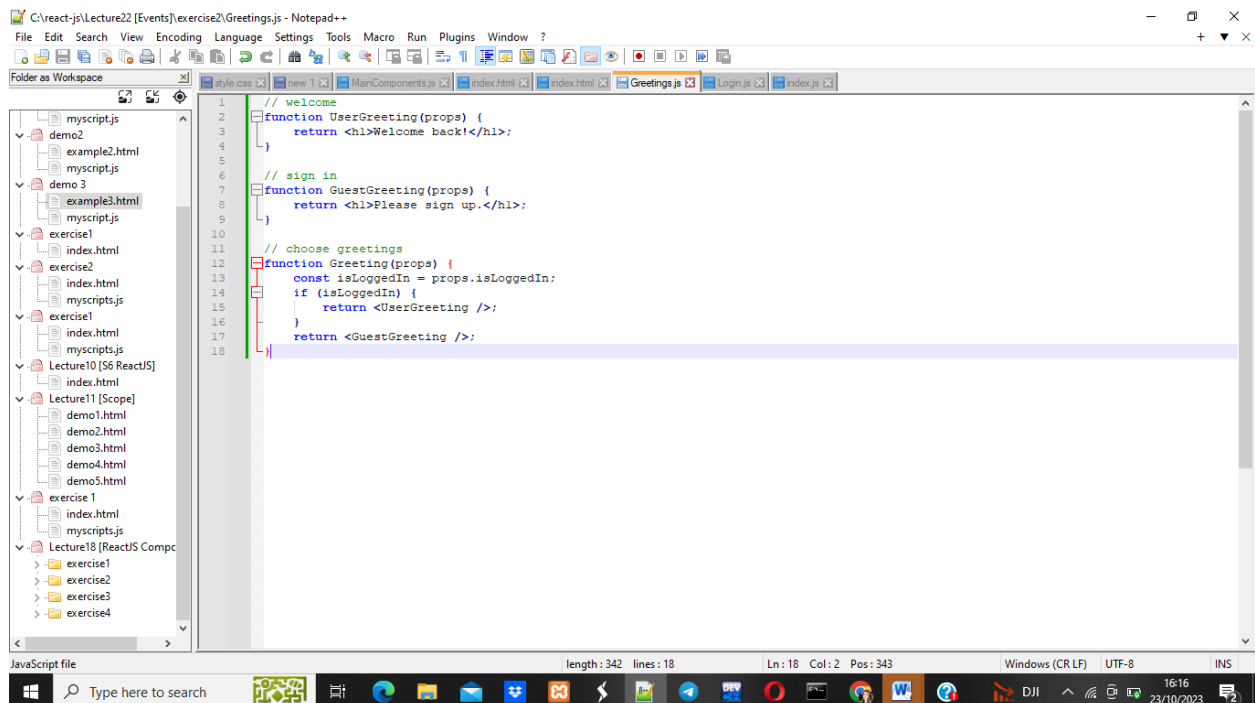
Pertama kita ketik coding HTML. Berikut kode HTML:



The screenshot shows a Notepad++ window with the file path C:\react-js\Lecture22 [Events]\exercise2\index.html. The code is an HTML document with a head section containing a title, charset, viewport meta tag, and several script tags for React, ReactDOM, Babel, and custom JS files. The body contains a single div with id="app".

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <title>CSS test</title>
5   <meta charset="utf-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1">
7   <script src="https://unpkg.com/react@16/umd/react.production.min.js"></script>
8   <script src="https://unpkg.com/react-dom@16/umd/react-dom.production.min.js"></script>
9   <script src="https://unpkg.com/babel-standalone@6.15.0/babel.min.js"></script>
10  <script src="/Greetings.js" type="text/babel"></script>
11  <script src="/Login.js" type="text/babel"></script>
12  <script src="/index.js" type="text/babel"></script>
13 </head>
14 <body>
15   <div id="app"></div>
16 </body>
17 </html>
```

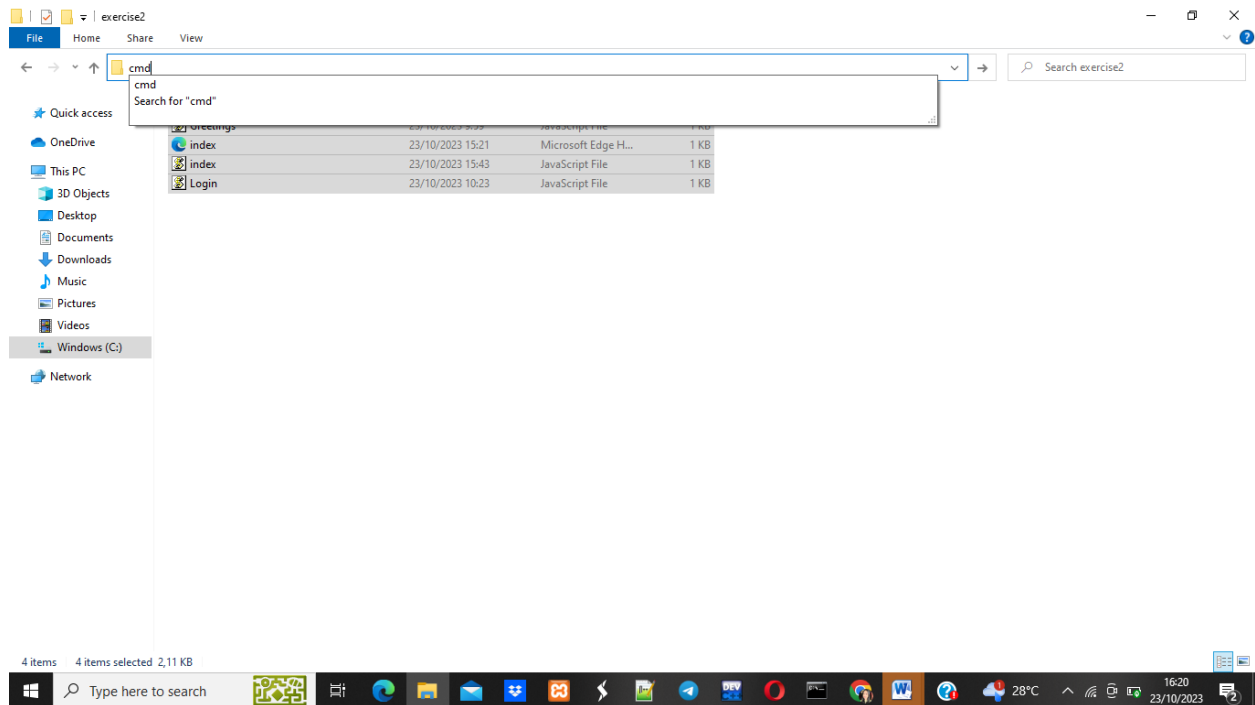
Kemudian kita ketik coding Greetings.js. Berikut kode JS:



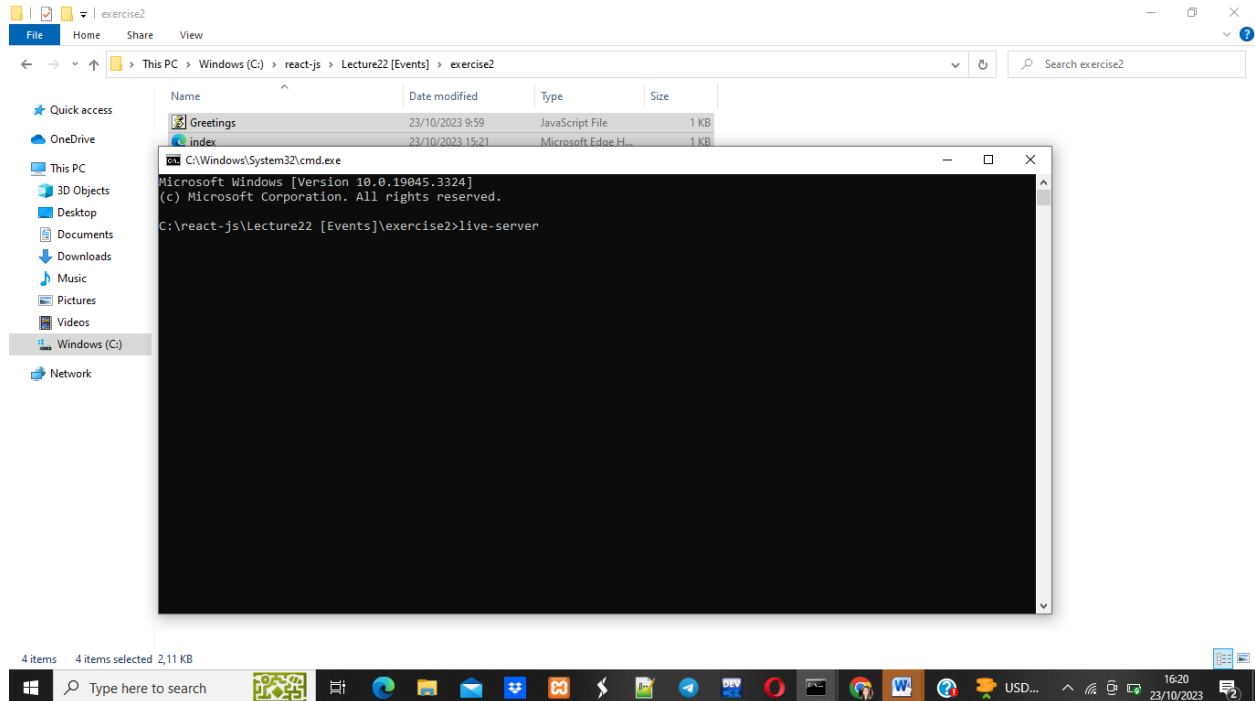
The screenshot shows a Notepad++ window with the file path C:\react-js\Lecture22 [Events]\exercise2\Greetings.js. The code defines three functions: UserGreeting, GuestGreeting, and Greeting. Greeting is a conditional function that calls either UserGreeting or GuestGreeting based on the isLoggedIn prop.

```
1 // welcome
2 function UserGreeting(props) {
3   return <h1>Welcome back!</h1>;
4 }
5
6 // sign in
7 function GuestGreeting(props) {
8   return <h1>Please sign up.</h1>;
9 }
10
11 // choose greetings
12 function Greeting(props) {
13   const isLoggedIn = props.isLoggedIn;
14   if (isLoggedIn) {
15     return <UserGreeting />;
16   }
17   return <GuestGreeting />;
18 }
```

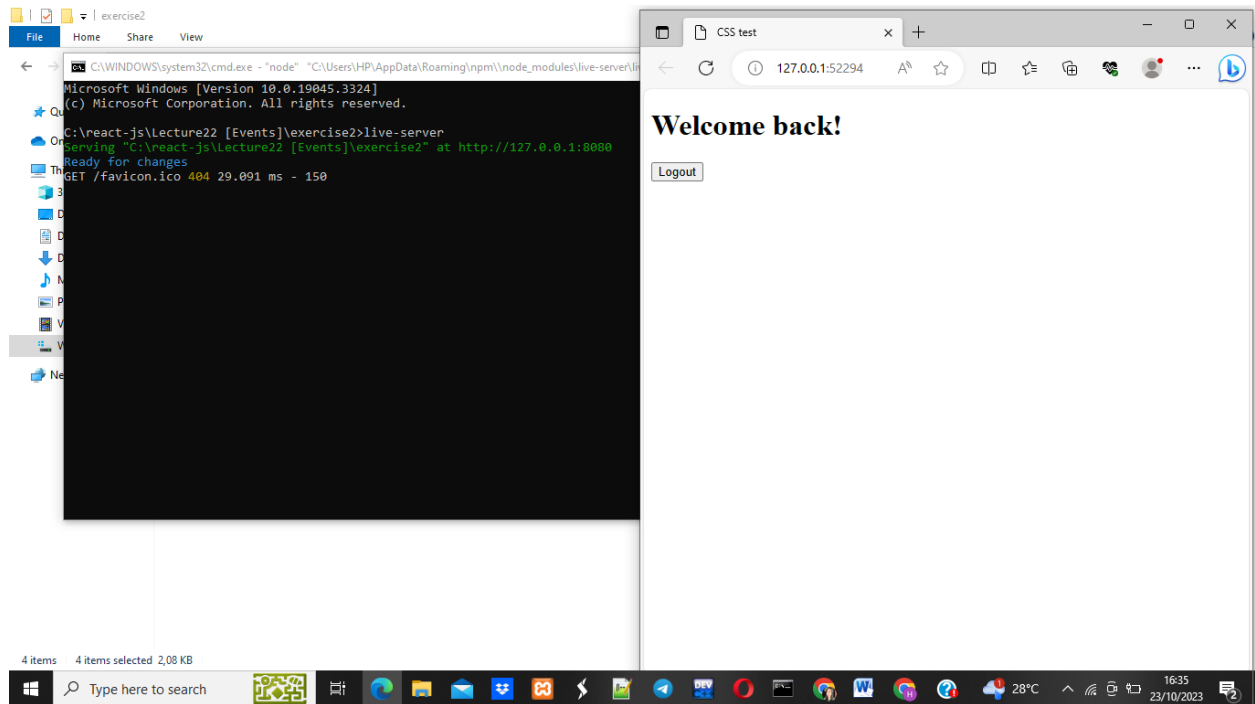
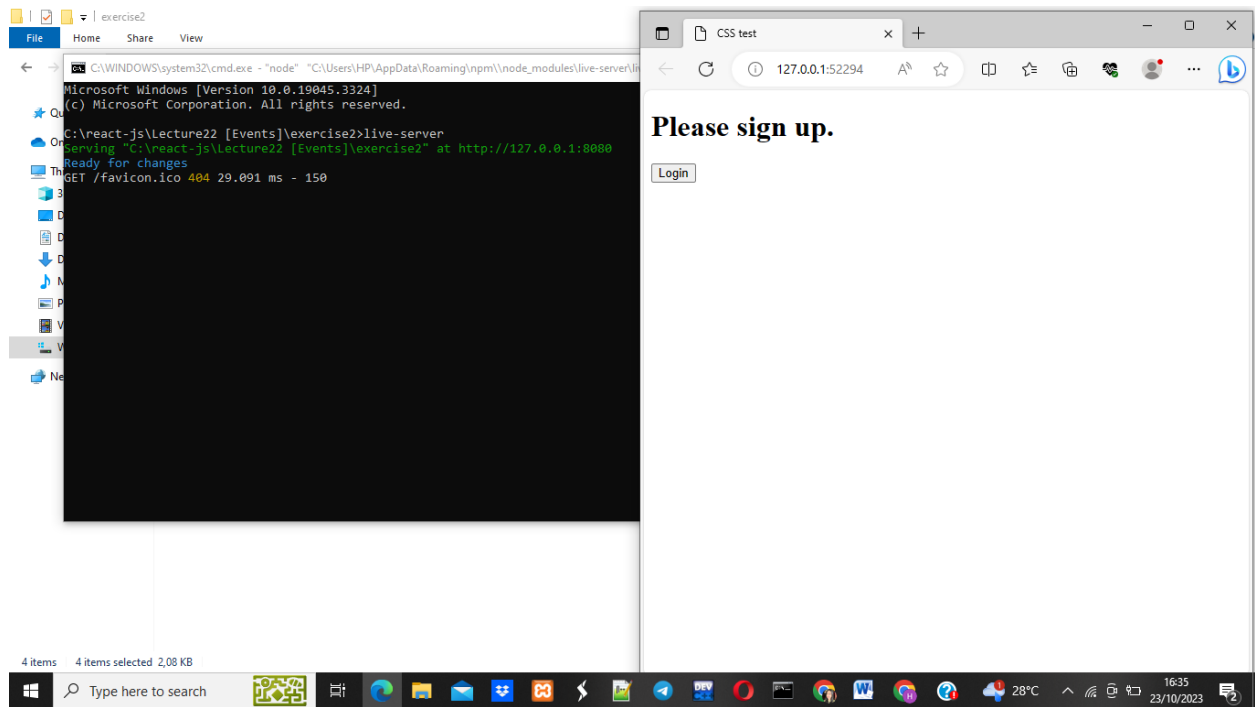
Kemudian kita ketik coding Login.js. Berikut kode JS:



Dan akan terlihat seperti ini dan ketik live-server



Maka akan ready for changes dan otomatis menampilkan hasil seperti ini:



Sekian, terima kasih