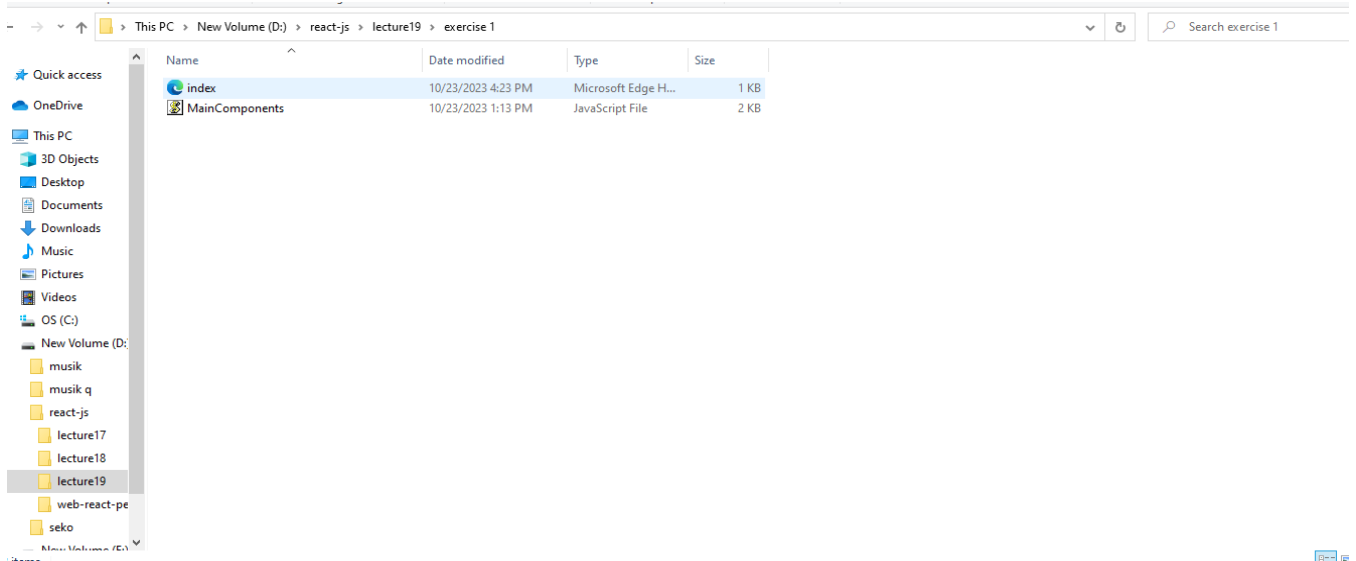


Exercise1

Pertama buat folder seperti gambar dibawa



Ketikkan index html seperti berikut

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <title>Calculator</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="./MainComponents.js" type="text/babel"></script>
11 </head>
12 <body>
13     <div id="app"></div>
14 </body>
15 </html>
```

Ketikkan maincomponent.js seperti gambar di bawa:

```
1 class Header extends React.Component {
2   constructor () {
3     super();
4     //membuat objek state
5     this.state = {
6       angka1: "0",
7       angka2: "0",
8       result: "0"
9     };
10  }
11
12  setValue1 = (val1) => { this.setState ({ angka1:""+val1}); }
13  setValue2 = (val2) => { this.setState ({ angka2:""+val2}); }
14
15  funcMultiply = (val1) => {
16    var hasil = parseInt(this.state.angka1) * parseInt (this.state.angka2);
17    this.setState({ result: ""+hasil });
18  }
19  funcDivide = (val1) => {
20    var hasil = parseInt(this.state.angka1) / parseInt (this.state.angka2);
21    this.setState({ result: ""+hasil });
22  }
23  funcSubtract = (val1) => {
24    var hasil = parseInt(this.state.angka1) - parseInt (this.state.angka2);
25    this.setState({ result: ""+hasil });
26  }
27  funcAdd = (val1) => {
28    var hasil = parseInt(this.state.angka1) + parseInt (this.state.angka2);
29    this.setState({ result: ""+hasil });
30  }
```

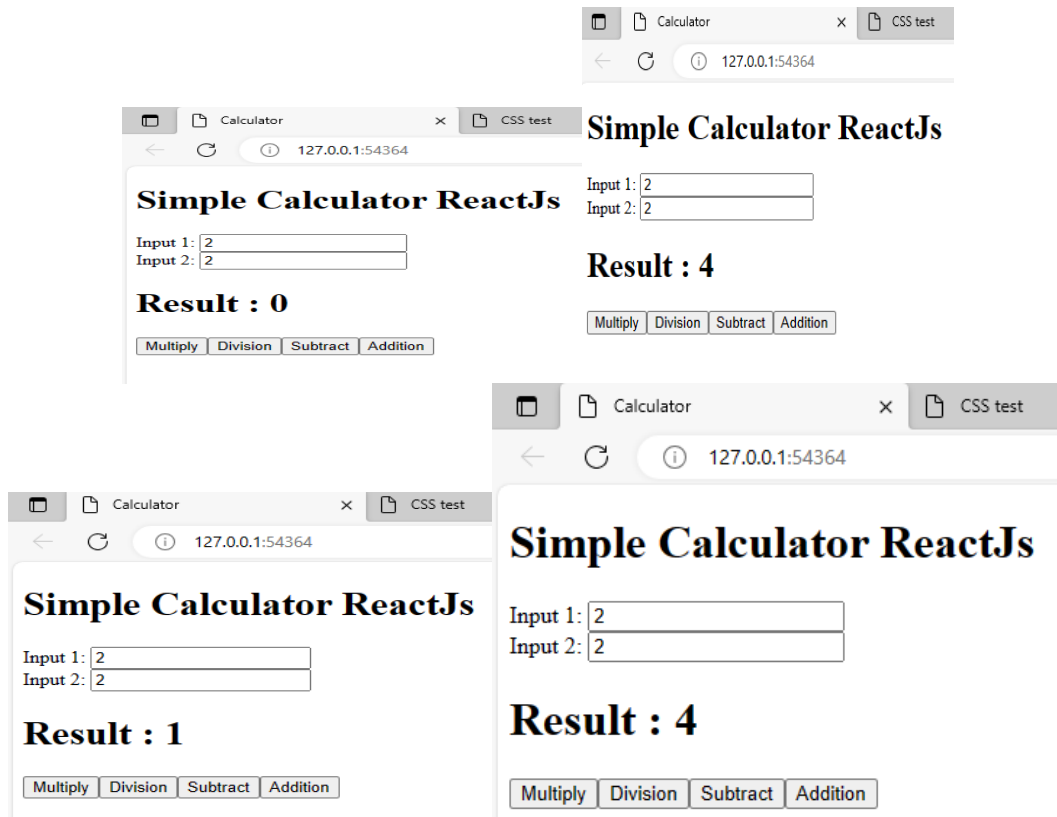
```
render () {
  return (
    <div>
      <h1>Simple Calculator ReactJs</h1>
      Input 1: <input value={this.state.angka1} onChange={(e) => {this.setValue1(e.target.value)}}/>
      <br/>
      Input 2: <input value={this.state.angka2} onChange={(e) => {this.setValue2(e.target.value)}}/>
      <br/>
      <h1>Result : {this.state.result}</h1>
      <button onClick={this.funcMultiply}>Multiply</button>
      <button onClick={this.funcDivide}>Division</button>
      <button onClick={this.funcSubtract}>Subtract</button>
      <button onClick={this.funcAdd}>Addition</button>
    </div>
  );
}

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

Hasil atau output seperti gambar di bawah ini:

```
C:\WINDOWS\system32\cmd.exe - "node" "C:\Users\ASUS\AppData\Roaming\npm\node_modules\live-server\live-server.js"
Microsoft Windows [Version 10.0.19045.3570]
(c) Microsoft Corporation. All rights reserved.

D:\react-js\lecture19\exercise 1>live-server
Serving "D:\react-js\lecture19\exercise 1" at http://127.0.0.1:8080
Ready for changes
GET /favicon.ico 404 12.916 ms - 150
```



Ketikkan index.html

```
MainComponent.js MainComponents.js index.html index.html Greetings.js login.js index.js
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>
```

Lalu greeting.js

```
MainComponent.js MainComponents.js index.html index.html Greetings.js login.js index.js
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 function Greeting(props) {
11   const isLoggedIn = props.isLoggedIn;
12   if (isLoggedIn) {
13     return <UserGreeting />;
14   }
15   return <GuestGreeting />;
16 }
```

Ketikkan

Ketikkan login.js

```
1 function LoginButton(props) {
2   return (
3     <button onClick={props.onClick}>
4       Login
5     </button>
6   );
7 }
8
9 function LogoutButton(props) {
10  return (
11    <button onClick={props.onClick}>
12      Logout
13    </button>
14  );
15 }
```

Index.js:

```
1 class LoginControl extends React.Component {
2   constructor (props) {
3     super (props);
4     this.handleClick = this.handleClick.bind(this);
5     this.handleLogoutClick = this.handleLogoutClick.bind(this);
6     this.state = {isLoggedIn: false}; // private data
7   }
8   handleClick() {
9     this.setState({isLoggedIn: true});
10  }
11  handleLogoutClick() {
12    this.setState({isLoggedIn: false});
13  }
14  render() {
15    const isLoggedIn = this.state.isLoggedIn;
16    let button;
17    if (isLoggedIn) {
18      button = <LogoutButton onClick={this.handleClick} />;
19    } else {
20      button = <LoginButton onClick={this.handleClick} />;
21    }
22    return (
23      <div>
24        <Greeting isLoggedIn={isLoggedIn} />
25        {button}
26      </div>
27    );
28  }
29 }
30 // render komponen ke RealDOM
31 ReactDOM.render (<LoginControl />, document.getElementById("app"));
```

Maka hasil yang di tampilkan seperti gambar di bawah

```
cmd C:\WINDOWS\system32\cmd.exe - "node" "C:\Users\ASUS\AppData\Roaming\npm\node_modules\live-server\live-server.js"
```

```
Microsoft Windows [Version 10.0.19045.3570]
(c) Microsoft Corporation. All rights reserved.

D:\react-js\lecture19\exercise 2>live-server
http://0.0.0.0:8080 is already in use. Trying another port.
Ready for changes
Serving "D:\react-js\lecture19\exercise 2" at http://127.0.0.1:54694
GET /favicon.ico 404 25.067 ms - 150
```

