TUGAS INDIVIDU

PEMROGRAMAN BERBASIS FRAMEWORK

PERTEMUAN 6

Disusun oleh:

Rijal Ammar Irsyadul Ibad

TI-3B/2041720184

D4 TEKNIK INFORMATIKA

TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG
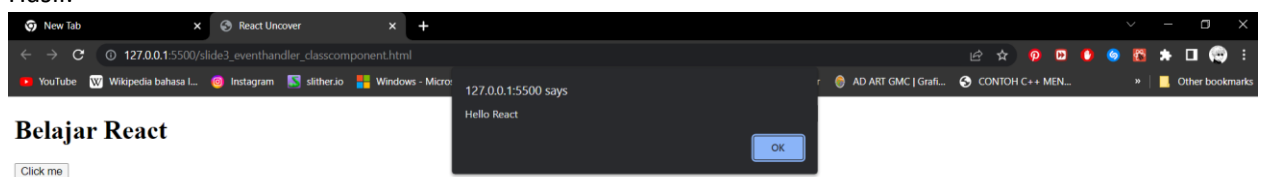
2023

1. Event Handler di Class Component Percobaan 1
   Code:

```html
<!-- Rijal Ammar Irsyadul Ibad / TI3A / 15 / 2041720184 -->
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>React Uncover</title>
</head>

<body>
    <div id="root"></div>

    <script src="js/react.development.js"></script>
    <script src="js/react-dom.development.js"></script>
    <script src="js/babel.js"></script>
    <script type="text/babel">

        class MyApp extends React.Component {
            render() {
                return (
                    <div>
                        <h1>Belajar React</h1>
                        <button onClick={() => alert("Hello React")}>Click me</button>
                    </div>
                )
            }
        }

        ReactDOM.createRoot(document.getElementById('root')).render(<MyApp />);
    </script>
</body>

</html>
```

Hasil:

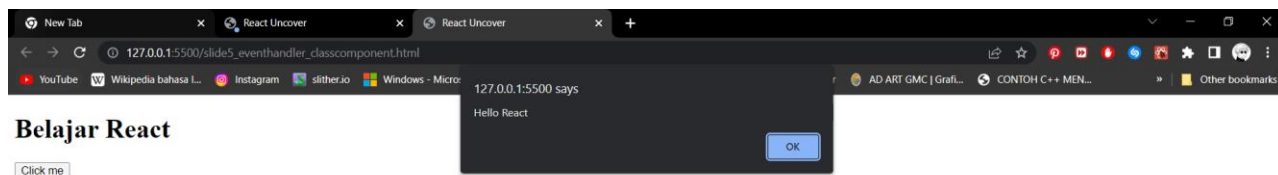2. Event Handler di Class Component Percobaan 2
   Code:

```html
<!-- Rijal Ammar Irsyadul Ibad / TI3A / 15 / 2041720184 -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>React Uncover</title>
</head>
<body>
    <div id="root"></div>
    <script src="js/react.development.js"></script>
    <script src="js/react-dom.development.js"></script>
    <script src="js/babel.js"></script>
    <script type="text/babel">

        class MyApp extends React.Component{

            handleButtonClick() {
                alert("Hello React");
            }

            render() {
                return (
                    <div>
                        <h1>Belajar React</h1>
                        <button onClick={this.handleButtonClick}>Click me</button>
                    </div>
                )
            }
        }

        ReactDOM.createRoot(document.getElementById('root')).render(<MyApp />);
    </script>
</body>
</html>
```

Hasil:

3. Event Handler di Class Component Percobaan 3
Code:

```html
<!-- Rijal Ammar Irsyadul Ibad / TI3A / 15 / 2041720184 -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>React Uncover</title>
</head>
<body>
    <div id="root"></div>
    <script src="js/react.development.js"></script>
    <script src="js/react-dom.development.js"></script>
    <script src="js/babel.js"></script>
    <script type="text/babel">

        class Tombol extends React.Component {
            handleButtonClick(){
                alert("Hello React");
            }

            render(){
                return <button onClick={this.handleButtonClick}>Click me</button>
            }
        }

        class MyApp extends React.Component {
            render(){
                return(
                    <div>
                        <h1>Belajar React</h1>
                        <Tombol />
                        </div>
                )
            }
        }

        ReactDOM.createRoot(document.getElementById('root')).render(<MyApp />);
    </script>
</body>
</html>
```

Hasil:

4. Event Binding Percobaan 1
Code:

```
1   <!-- Rijal Ammar Irsyadul Ibad / TI3A / 15 / 2041720184 -->
2   <!DOCTYPE html>
3   <html lang="en">
4
5   <head>
6       <meta charset="UTF-8">
7       <meta http-equiv="X-UA-Compatible" content="IE=edge">
8       <meta name="viewport" content="width=device-width, initial-scale=1.0">
9       <title>React Uncover</title>
10  </head>
11
12  <body>
13      <div id="root"></div>
14      <script src="js/react.development.js"></script>
15      <script src="js/react-dom.development.js"></script>
16      <script src="js/babel.js"></script>
17      <script type="text/babel">
18
19          class Tombol extends React.Component {
20              handleButtonClick() {
21                  alert(this.props.pesan); // ini akan error
22              }
23
24              render() {
25                  return (
26                      <button onClick={this.handleButtonClick} style={{ margin: "10px" }}>
27                          {this.props.children}
28                      </button>
29                  )
30              }
31          }
32
33          class MyApp extends React.Component {
34              render() {
35                  return (
36                      <div>
37                          <h1>Belajar React</h1>
38                          <Tombol pesan="Belajar React">React</Tombol>
39                          <Tombol pesan="Belajar JavaScript">JavaScript</Tombol>
40                      </div>
41                  )
42              }
43          }
44
45          ReactDOM.createRoot(document.getElementById('root')).render(<MyApp />);
46      </script>
47  </body>
48
49  </html>
```
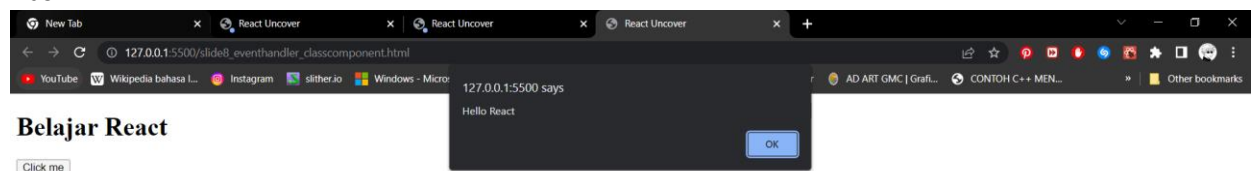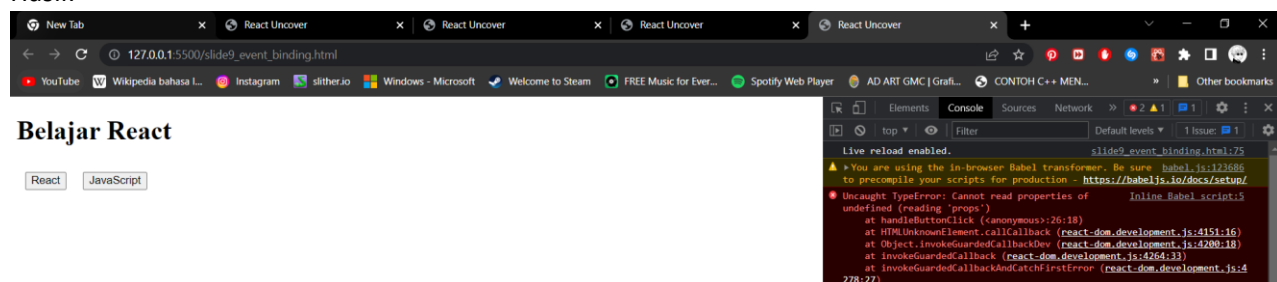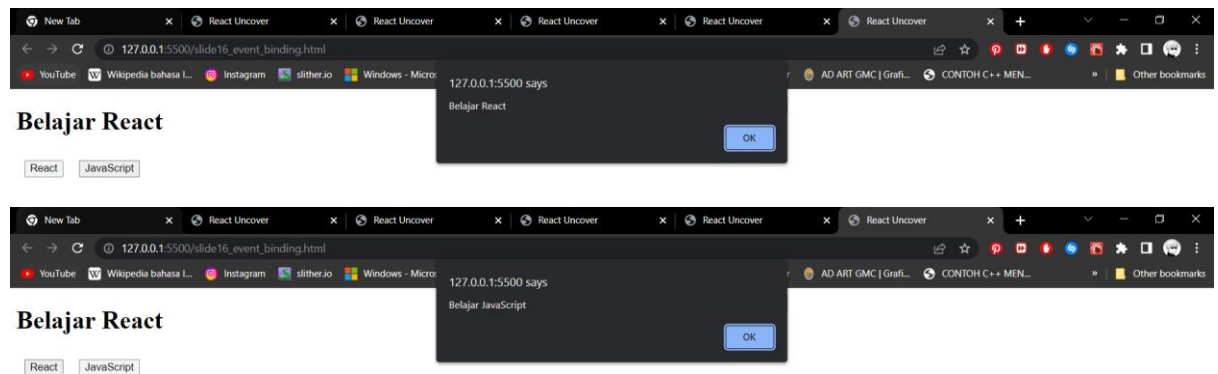
Hasil:

5. Event Binding Percobaan 2
Code:

```html
<!-- Rijal Ammar Irsyadul Ibad / TI3A / 15 / 2041720184 -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>React Uncover</title>
</head>
<body>
    <div id="root"></div>
    <script src="js/react.development.js"></script>
    <script src="js/react-dom.development.js"></script>
    <script src="js/babel.js"></script>
    <script type="text/babel">

        class Tombol extends React.Component {
            handleButtonClick(){
                alert(this.props.pesan);
            }

            render(){
                return (
                    // kurang disarankan karena fungsi ini akan terus dibuat setiap kali proses render
                    <button onClick={this.handleButtonClick.bind(this)} style={{margin: "10px"}}>
                        {this.props.children}
                        </button>
                    )
                }
            }

        class MyApp extends React.Component {
            render(){
                return(
                    <div>
                        <h1>Belajar React</h1>
                        <Tombol pesan="Belajar React">React</Tombol>
                        <Tombol pesan="Belajar JavaScript">JavaScript</Tombol>
                        </div>
                    )
                }
            }

        ReactDOM.createRoot(document.getElementById('root')).render(<MyApp />);
    </script>
</body>
</html>
```
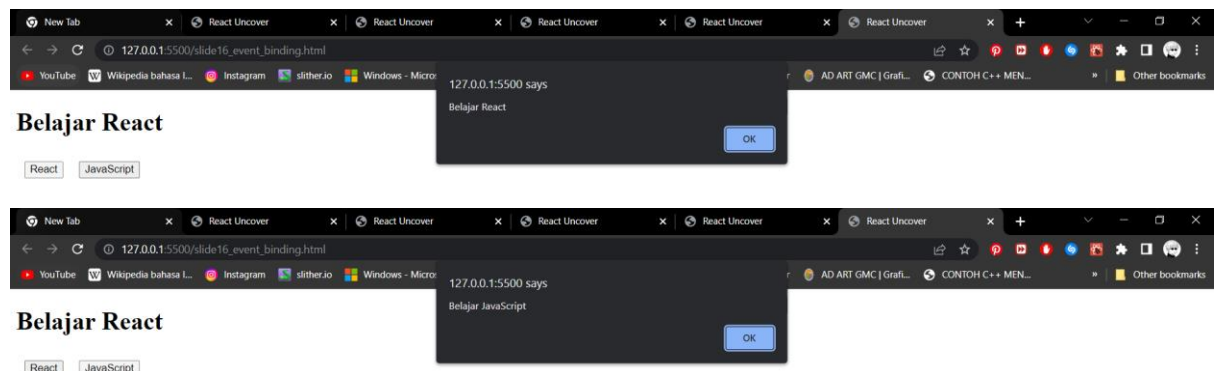
Hasil:

6. Event Binding Percobaan 3

Code:

```html
<!-- Rijal Ammar Irsyadul Ibad / TI3A / 15 / 2041720184 -->
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>React Uncover</title>
</head>

<body>
    <div id="root"></div>
    <script src="js/react.development.js"></script>
    <script src="js/react-dom.development.js"></script>
    <script src="js/babel.js"></script>
    <script type="text/babel">

        class Tombol extends React.Component {
            constructor() {
                super(); // tidak perlu props karena kita tidak perlu pakai props disin. tapi jika ingin ditulis juga silahkan
                this.handleButtonClick = this.handleButtonClick.bind(this);
            }

            handleButtonClick() {
                alert(this.props.pesan);
            }

            render() {
                return (
                    <button onClick={this.handleButtonClick} style={{ margin: "10px" }}>
                        {this.props.children}
                    </button>
                )
            }
        }

        class MyApp extends React.Component {
            render() {
                return (
                    <div>
                        <h1>Belajar React</h1>
                        <Tombol pesan="Belajar React">React</Tombol>
                        <Tombol pesan="Belajar JavaScript">JavaScript</Tombol>
                    </div>
                )
            }
        }

        ReactDOM.createRoot(document.getElementById('root')).render(<MyApp />);
    </script>
</body>

</html>
```
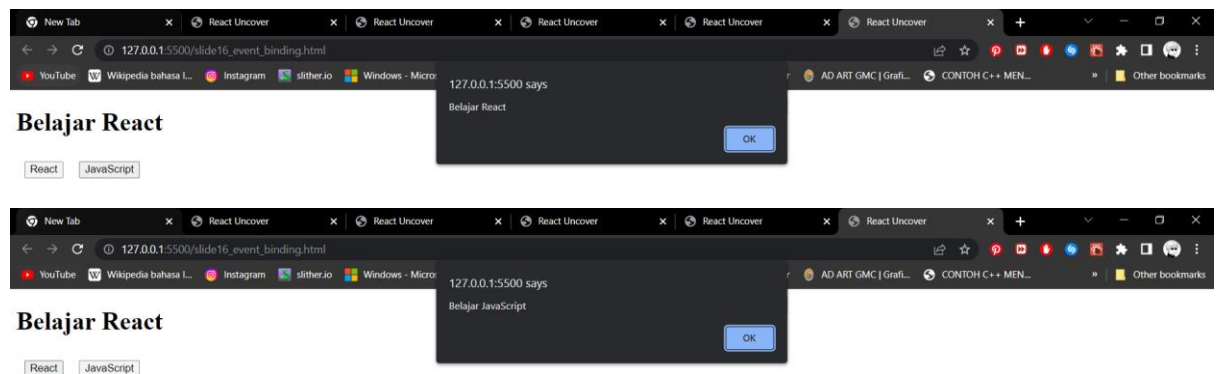
Hasil:

7. Event Binding Percobaan 4
   Code:

```html
<!-- Rijal Ammar Irsyadul Ibad / TI3A / 15 / 2041720184 -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>React Uncover</title>
</head>
<body>
    <div id="root"></div>
    <script src="js/react.development.js"></script>
    <script src="js/react-dom.development.js"></script>
    <script src="js/babel.js"></script>
    <script type="text/babel">

        class Tombol extends React.Component {
            // Class Properties (Stage 3 Proposal), buat menggunakan arrow function
            handleButtonClick = () => {
                alert(this.props.pesan);
            }

            render(){
                return (
                    <button onClick={this.handleButtonClick} style={{margin: "10px"}}>
                        {this.props.children}
                        </button>
                )
            }
        }

        class MyApp extends React.Component {
            render(){
                return(
                    <div>
                        <h1>Belajar React</h1>
                        <Tombol pesan="Belajar React">React</Tombol>
                        <Tombol pesan="Belajar JavaScript">JavaScript</Tombol>
                        </div>
                )
            }
        }

        ReactDOM.createRoot(document.getElementById('root')).render(<MyApp />);
    </script>
</body>
</html>
```
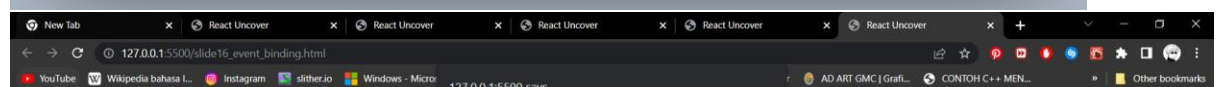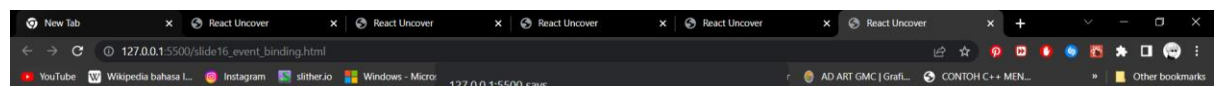
Hasil:

8. Event Binding Percobaan 5
   Code:

```html
<!-- Rijal Ammar Irsyadul Ibad / TI3A / 15 / 2041720184 -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <div id="root"></div>
    <script src="../js/react.development.js"></script>
    <script src="../js/react-dom.development.js"></script>
    <script src="../js/babel.js"></script>
    <script type="text/babel">

        class Tombol extends React.Component {

            handleButtonClick () {
                alert(this.props.pesan)
            }

            render () {
                // Kurang disarankan karena fungsi ini akan terus dibuat setiap ada render
                return (
                    <button onClick={() => this.handleButtonClick()} style={{ margin: "10px" }}>
                        {this.props.children}</button>
                )
            }
        }
        class MyApp extends React.Component {
            render () {
                return (
                    <div>
                        <h1>Belajar React</h1>
                        <Tombol pesan="Belajar React">React</Tombol>
                        <Tombol pesan="Belajar JavaScript">JavaScript</Tombol>
                    </div>
                )
            }
        }
        ReactDOM.createRoot(document.getElementById('root')).render(<MyApp />)
    </script>
</body>
</html>
```
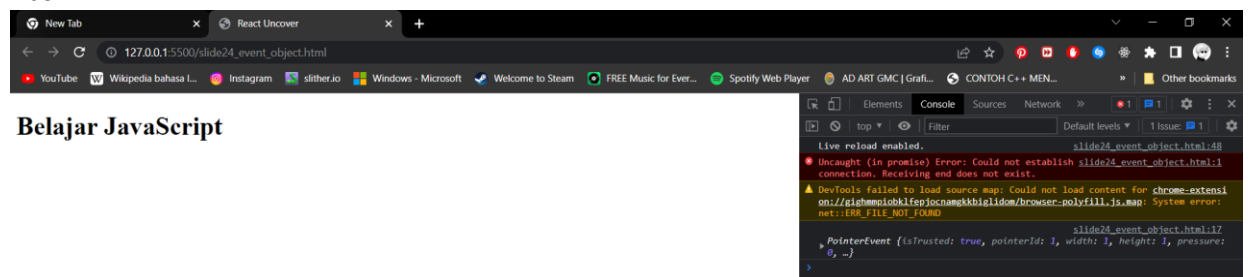
9. Event Object Percobaan 1
   Code:

```html
<!-- Rijal Ammar Irsyadul Ibad / TI3A / 15 / 2041720184 -->
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>React Uncover</title>
</head>

<body>
    <h1 id="Judul">Belajar JavaScript</h1>
    <script>
        var h1Node = document.getElementById("Judul");
        h1Node.addEventListener("click", function (event) {
            console.log(event);
        });
    </script>
</body>

</html>
```

Hasil:

Belajar JavaScript

10. Event Object Percobaan 2
    Code:

```html
<!-- Rijal Ammar Irsyadul Ibad / TI3A / 15 / 2041720184 -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>React Uncover</title>
</head>
<body>
    <h1 id="Judul">Belajar JavaScript</h1>
    <script>
        var h1Node = document.getElementById("Judul");
        h1Node.addEventListener("click", function (event) {
            console.log(event.target);
        });
    </script>
</body>
</html>
```
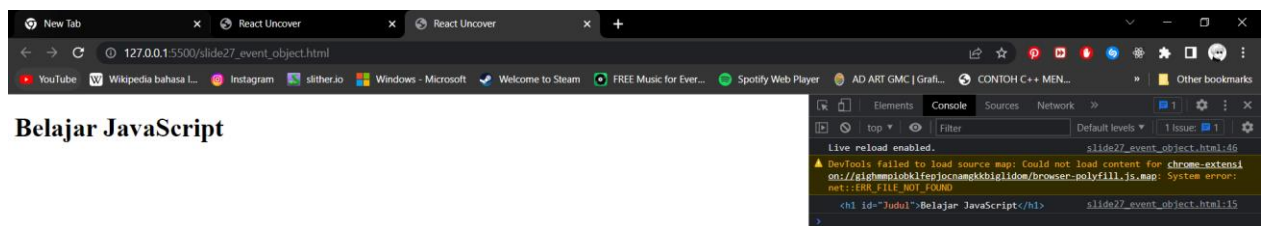
Hasil:

11. Event Object Percobaan 2
Code:

```
1   <!-- Rijal Ammar Irsyadul Ibad / TI3A / 15 / 2041720184 -->
2   <!DOCTYPE html>
3   <html lang="en">
4   <head>
5       <meta charset="UTF-8">
6       <meta http-equiv="X-UA-Compatible" content="IE=edge">
7       <meta name="viewport" content="width=device-width, initial-scale=1.0">
8       <title>React Uncover</title>
9   </head>
10  <body>
11      <div id="root"></div>
12      <script src="js/react.development.js"></script>
13      <script src="js/react-dom.development.js"></script>
14      <script src="js/babel.js"></script>
15      <script type="text/babel">
16
17          class Tombol extends React.Component {
18              handleButtonClick = (event) => {
19                  console.log(event);                  // event object
20                  console.log(event.target);           // node object tempat event terjadi
21                  console.log(event.target.innerHTML);   // ambil isi HTML dari node object. Untuk form, biasanya ambil nilai value
22              }
23
24              render(){
25                  return (
26                      <button onClick={this.handleButtonClick} style={{margin: "10px"}}>
27                          {this.props.children}
28                          </button>
29                  )
30              }
31          }
32
33          class MyApp extends React.Component {
34              render(){
35                  return(
36                      <div>
37                          <h1>Belajar React</h1>
38                          <Tombol pesan="Belajar React">React</Tombol>
39                          <Tombol pesan="Belajar JavaScript">JavaScript</Tombol>
40                      </div>
41                  )
42              }
43          }
44
45          ReactDOM.createRoot(document.getElementById('root')).render(<MyApp />);
46      </script>
47  </body>
48  </html>
```
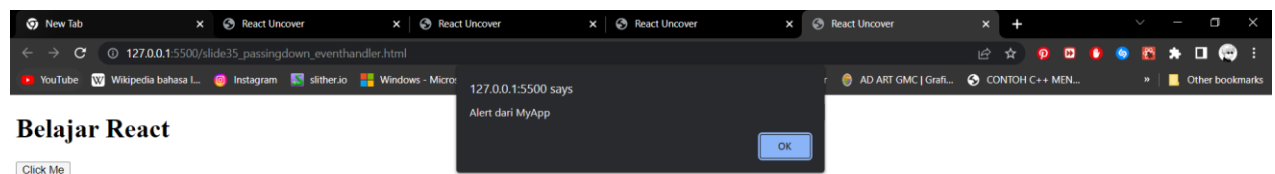
Hasil:

12. Menurunkan (Passing Down) Event Handler
Code:

```html
<!-- Rijal Ammar Irsyadul Ibad / TI3A / 15 / 2041720184 -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>React Uncover</title>
</head>
<body>
    <div id="root"></div>
    <script src="js/react.development.js"></script>
    <script src="js/react-dom.development.js"></script>
    <script src="js/babel.js"></script>
    <script type="text/babel">

        class Tombol extends React.Component {
            render() {
                return (
                    <button onClick={this.props.onTombolClick}>Click Me</button>
                )
            }
        }

        class MyApp extends React.Component {
            handleClick = () =>  {
                alert("Alert dari MyApp");
            }

            render() {
                return (
                    <div>
                        <h1>Belajar React</h1>
                        <Tombol onTombolClick={this.handleClick} />
                    </div>
                )
            }
        }

        ReactDOM.createRoot(document.getElementById('root')).render(<MyApp />);
    </script>
</body>
</html>
```

Hasil:
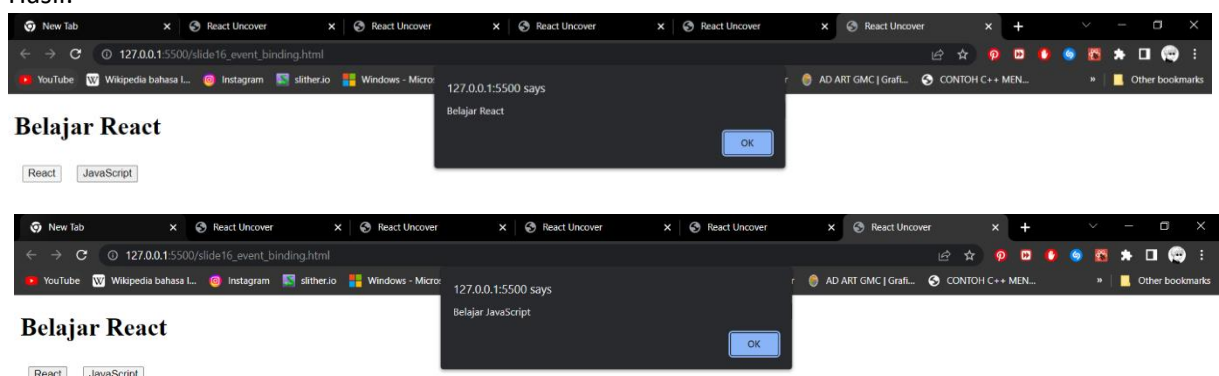
13. Menurunkan (Passing Down) Event Handler
Code:

```html
<!-- Rijal Ammar Irsyadul Ibad / TI3A / 15 / 2041720184 -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>React Uncover</title>
</head>
<body>
    <div id="root"></div>
    <script src="js/react.development.js"></script>
    <script src="js/react-dom.development.js"></script>
    <script src="js/babel.js"></script>
    <script type="text/babel">

        const Tombol = (props) =>{
            const handleButtonClick = () => {
                alert(props.pesan);
            }

            return(
                <button onClick={handleButtonClick} style={{margin: "10px"}}>
                    {props.children}
                    </button>
            )
        }

        const MyApp = () => {
            return(
                <div>
                    <h1>Belajar React</h1>
                    <Tombol pesan="Belajar React">React</Tombol>
                    <Tombol pesan="Belajar JavaScript">JavaScript</Tombol>
                    </div>
            )
        }

        ReactDOM.createRoot(document.getElementById('root')).render(<MyApp />)
    </script>
</body>
</html>
```

Hasil:

14. Tugas 1 PPT

Code:

```
1  <!-- Rijal Ammar Irsyadul Ibad / TI3A / 15 / 2041720184 -->
2  <!DOCTYPE html>
3  <html lang="en">
4  <head>
5      <meta charset="UTF-8">
6      <meta http-equiv="X-UA-Compatible" content="IE=edge">
7      <meta name="viewport" content="width=device-width, initial-scale=1.0">
8      <title>React Uncover</title>
9  </head>
10 <body>
11     <div id="root"></div>
12     <script src="js/react.development.js"></script>
13     <script src="js/react-dom.development.js"></script>
14     <script src="js/babel.js"></script>
15     <script type="text/babel">
16
17         const Tombol = (props) => {
18             const handleButtonClick = (event) => {
19                 console.log(event);                 // event object
20                 console.log(event.target);          // node object tempat event terjadi
21                 console.log(event.target.innerHTML);    // ambil isi HTML dari node object. Untuk form, biasanya ambil nilai value
22             }
23             return (
24                 <button onClick={handleButtonClick} style={{margin: "10px"}}>
25                     {props.children}
26                     </button>
27             )
28         }
29
30         const MyApp = () => {
31             return(
32                 <React.Fragment>
33                     <div>
34                         <h1>Belajar React</h1>
35                         <Tombol pesan="Belajar React">React</Tombol>
36                         <Tombol pesan="Belajar JavaScript">JavaScript</Tombol>
37                     </div>
38                 </React.Fragment>
39
40             )
41         }
42
43         ReactDOM.createRoot(document.getElementById('root')).render(<MyApp />);
44     </script>
45 </body>
46 </html>
```
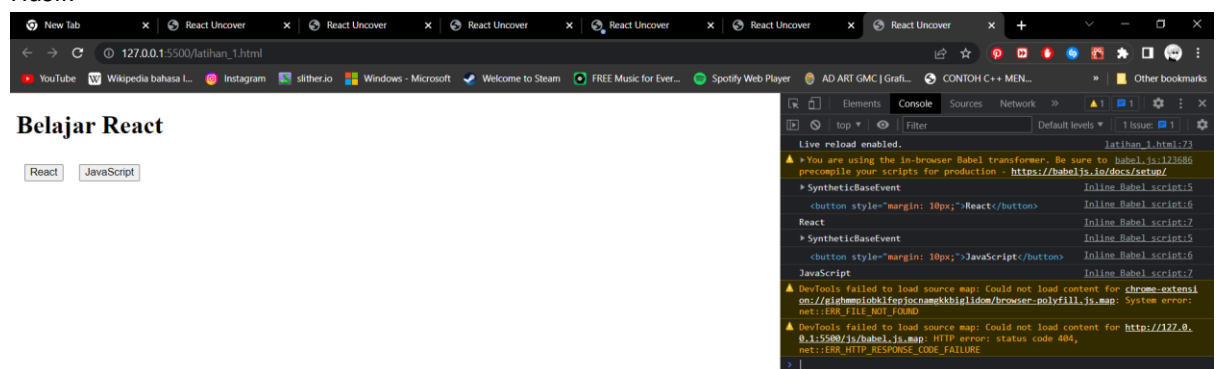
Hasil:

15. Tugas 2 PPT

Code:

```html
<!-- Rijal Ammar Irsyadul Ibad / TI3A / 15 / 2041720184 -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>React Uncover</title>
</head>
<body>
    <div id="root"></div>
    <script src="js/react.development.js"></script>
    <script src="js/react-dom.development.js"></script>
    <script src="js/babel.js"></script>
    <script type="text/babel">

        const Tombol = (props) => {
            return (
                <button onClick={props.onTombolClick}>Click Me</button>
            )
        }

        const MyApp = () => {
           const handleClick = () =>  {
                alert("Alert dari MyApp");
             }

            return (
                <div>
                    <h1>Belajar React</h1>
                    <Tombol onTombolClick={handleClick} />
                    </div>
                )
        }

        ReactDOM.createRoot(document.getElementById('root')).render(<MyApp />);
    </script>
</body>
</html>
```

Hasil: