PEMOGRAMAN BERBASIS FRAMEWORK

MODERN JAVASCRIPT

Oleh:

Aulia Rahman Nur M

1941720209

TI – 3F

PROGRAM STUDI D4 TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

2020

A. Membuat variable menggunakan const

1. const.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <title>Learning Modern JavaScript</title>
</head>
<body>
    <script src="const.js"></script>
</body>
</html>
```

const.js

```javascript
const name = 'Polinema';
alert(name);
```

2. Hasil

This page says

Polinema

OK

B. Membuat variabel menggunakan let

1. let.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <title>Learning Modern JavaScript</title>
</head>
<body>
    <script src="let.js"></script>
</body>
</html>
```

let.js

```javascript
if(true){
    let name = 'Polinema';
    name = 'Politeknik Negeri Malang';
    alert(name);
}
```

2. Hasil

This page says

Politeknik Negeri Malang

OK

C. Membuat Template Strings

1. template.html

```
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="utf-8">
5        <title>Learning Modern JavaScript</title>
6    </head>
7    <body>
8        <script src="template.js"></script>
9    </body>
10   </html>
```
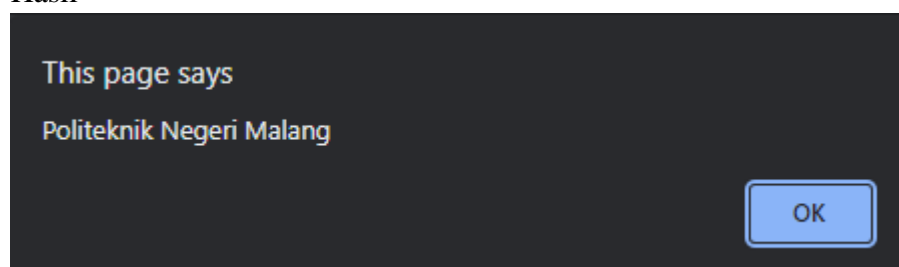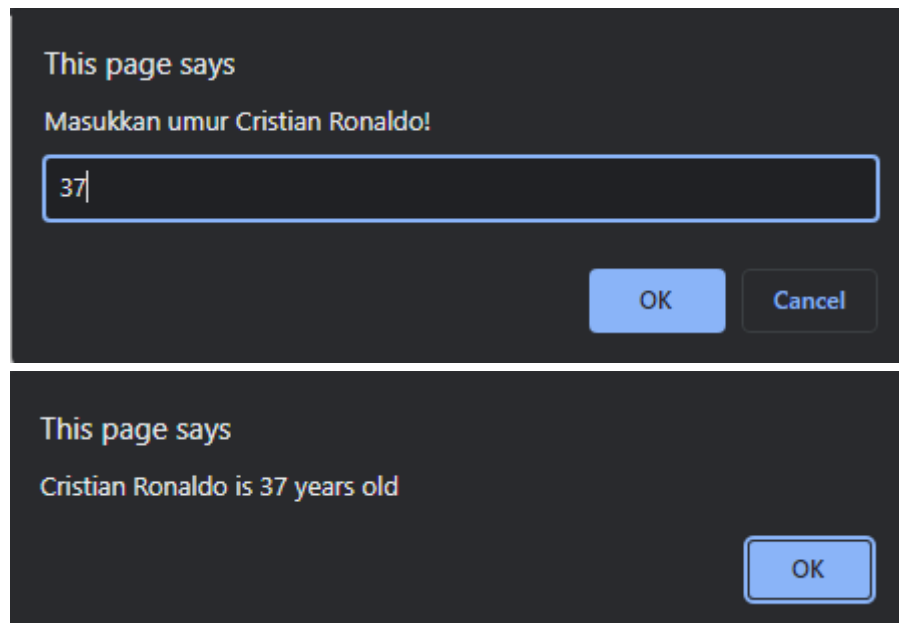
template.js

```
1    Let fname = 'Cristian';
2    Let lname = 'Ronaldo';
3    Let age = prompt("Masukkan umur Cristian Ronaldo!");
4
5    Let result = `${fname} ${lname} is ${age} years old`;
6    alert(result);
```

2. Hasil

This page says

Masukkan umur Cristian Ronaldo!

37

OK   Cancel

This page says

Cristian Ronaldo is 37 years old

OK

D. Membuat default parameters

1. defaultParameters.html

```
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="utf-8">
5        <title>Learning Modern JavaScript</title>
6    </head>
7    <body>
8        <script src="defaultParameters.js"></script>
9    </body>
10   </html>
```

defaultParameter.js

```
1  function welcome(user = 'Cantik', message = 'Selamat beraktifitas dan jangan lupa maka
2      alert(`Hai ${user}, ${message}`);
3  }
4  welcome();
```

2. Hasil

This page says

Hai Cantik, Selamat beraktifitas dan jangan lupa makan yah

OK

E. Membuat Arrow Function 1

1. arrow.html

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="utf-8">
5       <title>Learning Modern JavaScript</title>
6   </head>
7   <body>
8       <script src="arrow.js"></script>
9   </body>
10  </html>
```
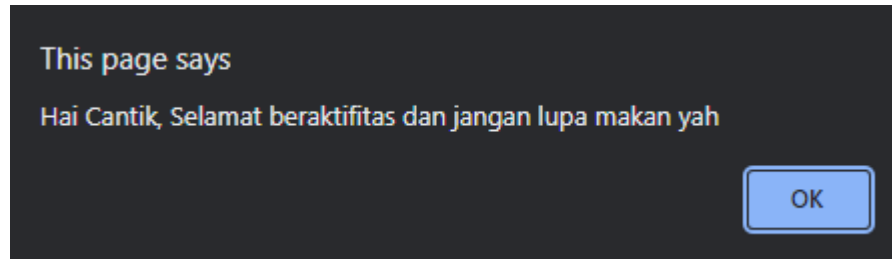
arrow.js

```
1  let gretting = message => alert(`${message} Cantik !`);
2
3  gretting('Selamat Pagi');
```

2. Hasil

This page says

Selamat Pagi Cantik !

OK

F. Membuat Arrow Function 2

1. arrowf.html

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="utf-8">
5       <title>Learning Modern JavaScript</title>
6   </head>
7   <body>
8       <script src="arrowf.js"></script>
9   </body>
10  </html>
```

arrowf.js

```
1   const func = (a, b) => {
2       return a+b;
3   }
4   alert(func(5,4));
```

2. Hasil

This page says

9

OK

G. Membuat Destructuring Object

1. destructuring.html

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="utf-8">
5       <title>Learning Modern JavaScript</title>
6   </head>
7   <body>
8       <script src="destructuring.js"></script>
9   </body>
10  </html>
```
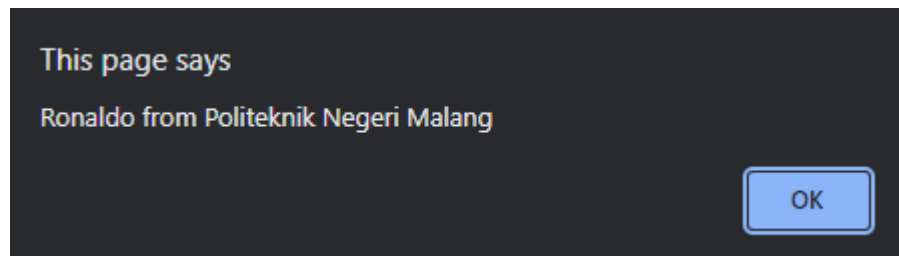
destructuring.js

```
1   Let polStudent= ({name, polytechnic}) => {
2       alert(`${name} from ${polytechnic}`);
3   };
4
5   polStudent({
6       name: 'Ronaldo',
7       polytechnic: 'Politeknik Negeri Malang'
8   });
```

2. Hasil

This page says

Ronaldo from Politeknik Negeri Malang

OK

H. Membuat Destructuring an Array

1. array.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <title>Learning Modern JavaScript</title>
</head>
<body>
    <script src="array.js"></script>
</body>
</html>
```

array.js

```javascript
Let [wife] = ['Ratna', 'Bunga', 'Tiara'];
alert(wife);
```

2. Hasil

This page says

Ratna

OK

3.

```javascript
Let [, ,wife] = ['Ratna', 'Bunga', 'Tiara'];
alert(wife);
```

4.

This page says

Tiara

OK

I. Membuat Restructuring

1. restructuring.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <title>Learning Modern JavaScript</title>
</head>
<body>
    <script src="restructuring.js"></script>
</body>
</html>
```
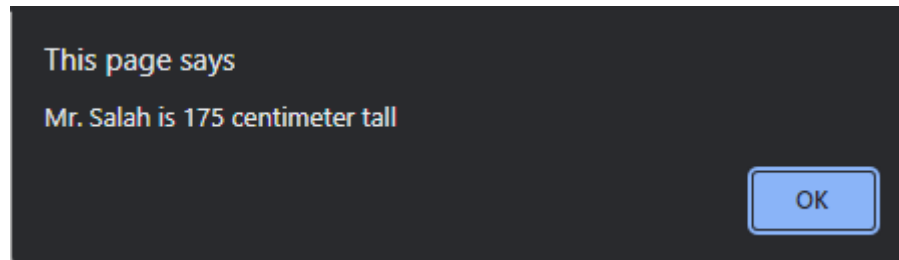
restructuring.js

```javascript
1   var pemainSepakbola = {
2       name: 'Salah',
3       height: '175',
4       output(){
5           alert(`Mr. ${this.name} is ${this.height} centimeter tall`);
6       }
7   };
8   pemainSepakbola.output();
```

2. Hasil

This page says

Mr. Salah is 175 centimeter tall

OK

J. Membuat Spread and Rest operator

1. spread.html

```html
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="utf-8">
5        <title>Learning Modern JavaScript</title>
6    </head>
7    <body>
8        <script src="spread.js"></script>
9    </body>
10   </html>
```
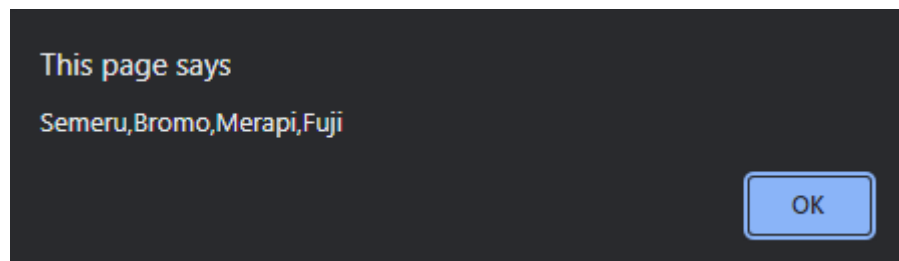
spread.js

```javascript
1   var mountains = ['Semeru', 'Bromo', 'Merapi'];
2   var mountainsFromJapan = ['Fuji'];
3
4   var allMountains = [...mountains, ...mountainsFromJapan];
5   alert(allMountains);
```

2. Hasil

This page says

Semeru,Bromo,Merapi,Fuji

OK

3. restO.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <title>Learning Modern JavaScript</title>
</head>
<body>
    <script src="restO.js"></script>
</body>
</html>
```

restO.js

```javascript
var rivers = ['ciliwung', 'Brantas', 'Bengawan Solo'];
var [first, ...rest] = rivers;

alert(rest);
```

4. Hasil

This page says

Brantas,Bengawan Solo

OK

K. Membuat Classes Constructor and Super

1. class.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <title>Learning Modern JavaScript</title>
</head>
<body>
    <script src="class.js"></script>
</body>
</html>
```

class.js

```javascript
class Holiday {
    constructor(destination, days){
        this.destination = destination;
        this.days = days;
    }

    info(){
        alert(`${this.destination} will take ${this.days} days.`);
    }
}

class Expedition extends Holiday {
    constructor(destination, days, gear){
        super(destination, days);
        this.gear = gear;
    }

    info(){
        super.info();
        alert(`Bring your ${this.gear.join(` and your `)}`);
    }
}

const tripWithGear = new Expedition('Semeru', 10, ['Sunglasses', 'Flags', 'Camera']);
tripWithGear.info();
```

2. Hasil

This page says

Semeru will take 10 days.

OK

This page says

Bring your Sunglasses and your Flags and your Camera

OK