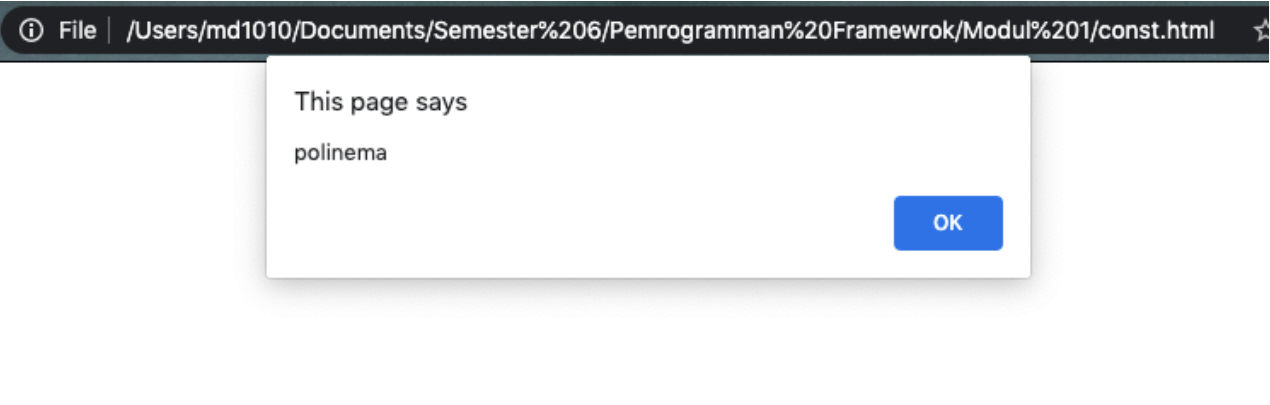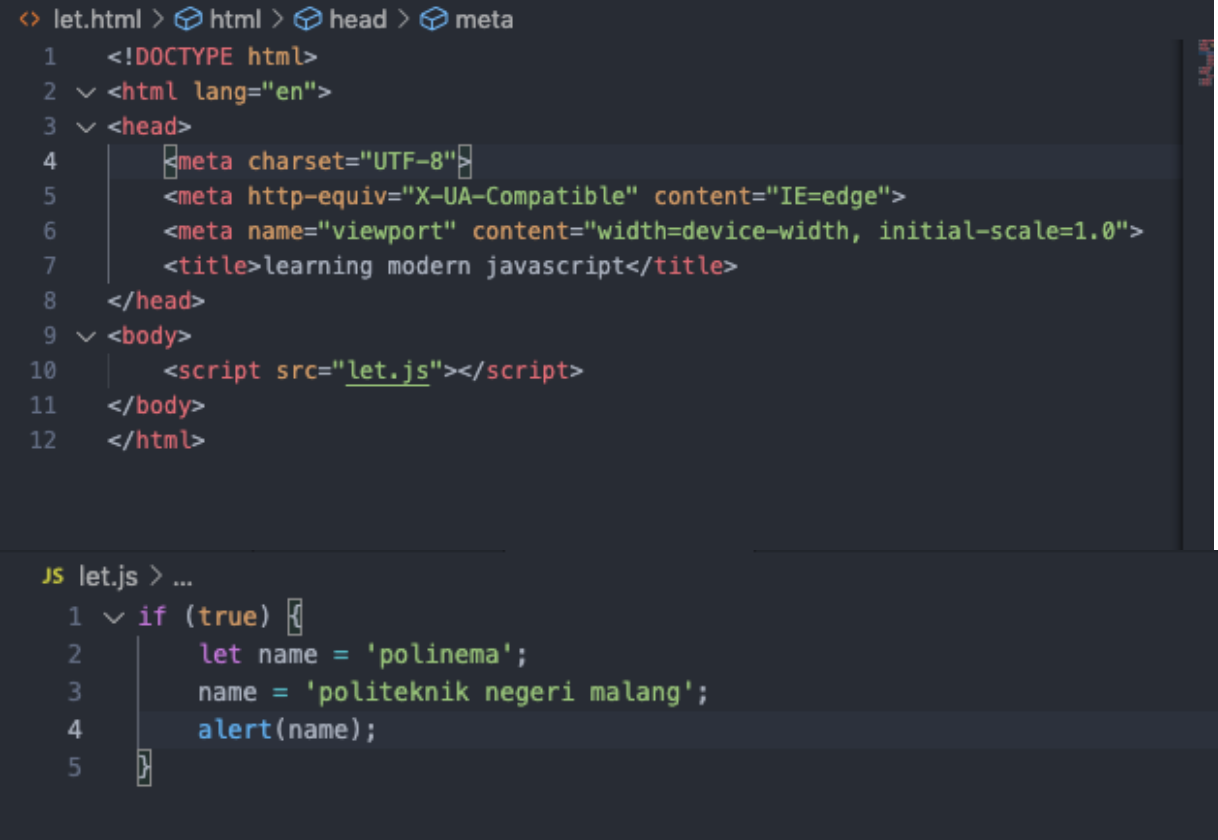**Nama : Muhammad Iqbaluddin Al Huda**
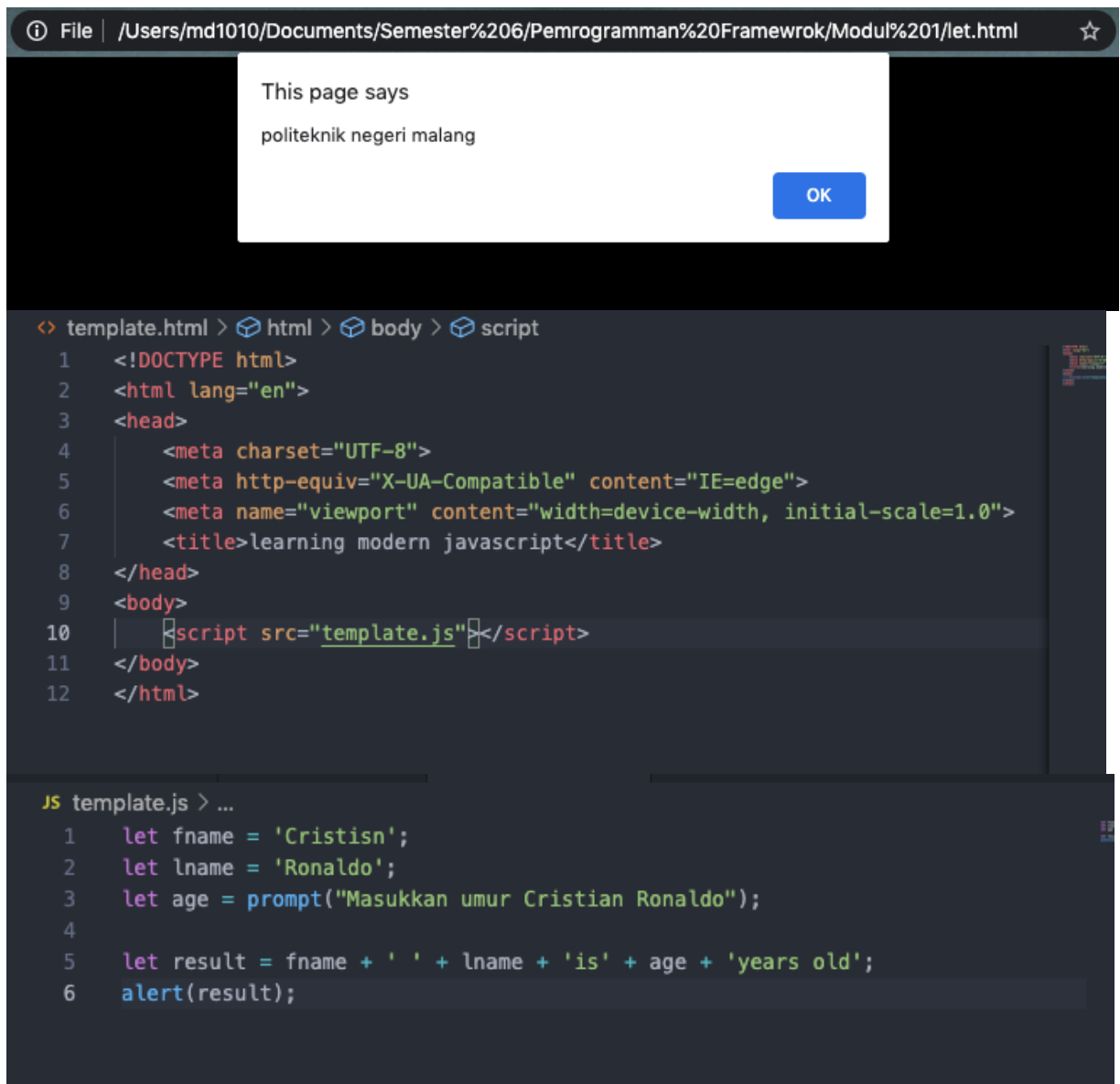**Kelas : TI-3E**
NIM : 1841720013

TUJUAN

1. Mahasiswa dapat mengetahui dan mengimplemantasikan kegunaan variables using const.
2. Mahasiswa dapat mengetahui dan mengimplemantasikan kegunaan variables using let.
3. Mahasiswa dapat mengetahui dan mengimplemantasikan kegunaan template string.
4. Mahasiswa dapat mengetahui dan mengimplemantasikan kegunaan arrow function.
5. Mahasiswa dapat mengetahui dan mengimplemantasikan kegunaan destructuring object.
6. Mahasiswa dapat mengetahui dan mengimplemantasikan kegunaan destructuring an array.
7. Mahasiswa dapat mengetahui dan mengimplemantasikan kegunaan spread and rest operator.
8. Mahasiswa dapat mengetahui dan mengimplemantasikan kegunaan classes constructor and super.

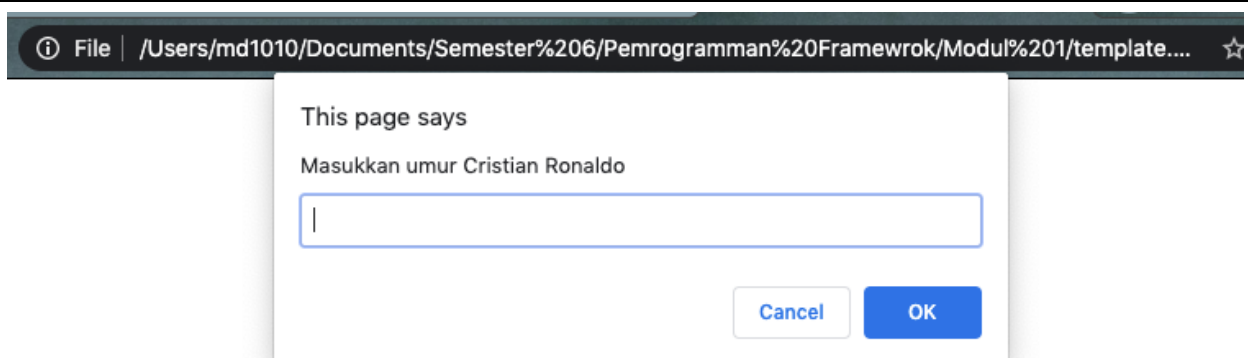| Langkah	Keterangan

1	```html
	<!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>learning modern javascript</title>
	</head>
	<body>
	    <script src="const.js"></script>
	</body>
	</html>
	``
	
	``js
	const name = "polinema";
	alert(name);
	``
	
	Const Mendeklarasikan sebuah lingkup-blok, baca-saja dinamakan konstanta.
	Alert menampilkan jendela alert pada web browser yang sudah dideklarasikan pada konstatanta

This page says

polinema

OK

2	

```
<> let.html > ⊘ html > ⊘ head > ⊘ meta
 1    <!DOCTYPE html>
 2  ∨ <html lang="en">
 3  ∨ <head>
 4        <meta charset="UTF-8">
 5        <meta http-equiv="X-UA-Compatible" content="IE=edge">
 6        <meta name="viewport" content="width=device-width, initial-scale=1.0">
 7        <title>learning modern javascript</title>
 8    </head>
 9  ∨ <body>
10        <script src="let.js"></script>
11    </body>
12    </html>
```

```
JS let.js > ...
 1  ∨ if (true) {
 2        let name = 'polinema';
 3        name = 'politeknik negeri malang';
 4        alert(name);
 5    }
```

Let Mendeklarasikan lingkup-blok, variabel lokal, opsional menginisialisasi sebuah nilai.

This page says

politeknik negeri malang

OK

```html
<> template.html > ⊘ html > ⊘ body > ⊘ script
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta http-equiv="X-UA-Compatible" content="IE=edge">
6       <meta name="viewport" content="width=device-width, initial-scale=1.0">
7       <title>learning modern javascript</title>
8   </head>
9   <body>
10      <script src="template.js"></script>
11  </body>
12  </html>
```

```javascript
JS template.js > ...
1   let fname = 'Cristisn';
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);
```

Mendeklarasikan lingkup-blok, variabel lokal, opsional menginisialisasi sebuah nilai.
Prompt berfungsi untuk mengambil sebuah inputan dari pengguna.

This page says

Masukkan umur Cristian Ronaldo

|

Cancel   **OK**

	ⓘ File | /Users/md1010/Documents/Semester%206/Pemrogramman%20Framewrok/Modul%201/template.... ☆ **This page says** Cristisn Ronaldois30years old **OK**
| **4** | ```html
<> defaultParameter.html > html > body > script
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta http-equiv="X-UA-Compatible" content="IE=edge">
6       <meta name="viewport" content="width=device-width, initial-scale=1.0">
7       <title>learning modern javascript</title>
8   </head>
9   <body>
10      <script src="defaultParameter.js"></script>
11  </body>
12  </html>
```<br><br>```javascript
JS defaultParameter.js > welcone
1   function welcone(user = 'Cantik', message = 'Selamat beraktifitas dan jangan
2       alert(`ai ${user}, ${message}`);
3   }
4
5   welcone();
6
``` |
| | ⓘ File \| /Users/md1010/Documents/Semester%206/Pemrogramman%20Framewrok/Modul%201/defaultPa... ☆

This page says

ai Cantik, Selamat beraktifitas dan jangan lupa makan yah

<div align="right">**OK**</div> |

5

```html
<> arrow.html > </> html
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta http-equiv="X-UA-Compatible" content="IE=edge">
6        <meta name="viewport" content="width=device-width, initial-scale=1.0">
7        <title>learning modern javascript</title>
8    </head>
9    <body>
10       <script src="arrow.js"></script>
11   </body>
12   </html>
```

```js
JS arrow.js > ...
1    let gretting = message => alert(`${message} Cantik !`);
2
3    gretting('Selamat pagi');
```

File | /Users/md1010/Documents/Semester%206/Pemrogramman%20Framewrok/Modul%201/arrow.html ☆

This page says

Selamat pagi Cantik !

OK

6

```html
<> arrowf.html > </> html
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta http-equiv="X-UA-Compatible" content="IE=edge">
6        <meta name="viewport" content="width=device-width, initial-scale=1.0">
7        <title>learning modern javascript</title>
8    </head>
9    <body>
10       <script src="arrowf.js"></script>
11   </body>
12   </html>
```

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

This page says

9

OK

7

```html
<> destructuring.html > ⬡ html > ⬡ body > ⬡ script
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta http-equiv="X-UA-Compatible" content="IE=edge">
6        <meta name="viewport" content="width=device-width, initial-scale=1.0">
7        <title>learning modern javascript</title>
8    </head>
9    <body>
10       <script src="destructuring.js"></script>
11   </body>
12   </html>
```

```js
JS destructuring.js > ...
1    let polStudent = ({name, polythecnic}) => {
2        alert (`${name} from ${polythecnic}`);
3    };
4
5    polStudent({
6        name : 'Ronaldo',
7        polythecnic : 'politeknik negeri malang'
8    });
```

This page says

Ronaldo from politeknik negeri malang

OK

8

```
<> array.html > ⬦ html > ⬦ body > ⬦ script
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta http-equiv="X-UA-Compatible" content="IE=edge">
6        <meta name="viewport" content="width=device-width, initial-scale=1.0">
7        <title>learning modern javascript</title>
8    </head>
9    <body>
10       <script src="array.js"></script>
11   </body>
12   </html>
```

```
JS array.js > ...
1    let [wife] = ['Ratna', 'Bunga', 'Tiara'];
2    alert(wife);
```

This page says

Ratna

OK

9

```html
<> restructuring.html > ⊘ html > ⊘ body > ⊘ script
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta http-equiv="X-UA-Compatible" content="IE=edge">
6        <meta name="viewport" content="width=device-width, initial-scale=1.0">
7        <title>learning modern javascript</title>
8    </head>
9    <body>
10       <script src="restructuring.js"></script>
11   </body>
12   </html>
```
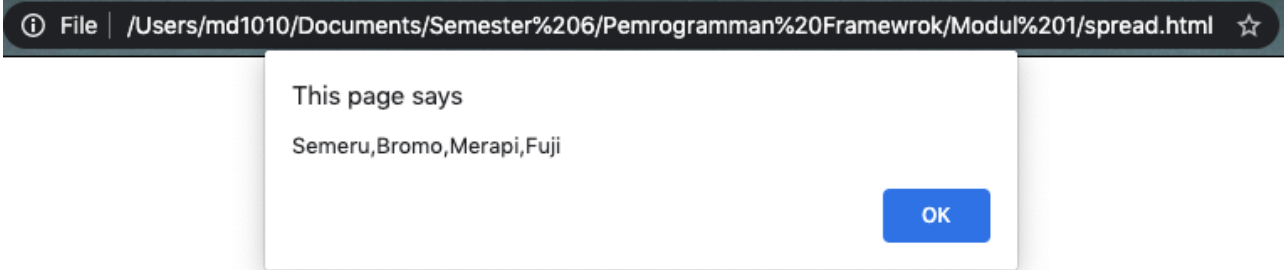
```javascript
JS restructuring.js > [∅] pemainSepakbola
1    var pemainSepakbola = {
2        name : 'Salah',
3        height : '175',
4        output(){
5            alert(`Mr. ${this.name} is ${this.height} centimeter tall`)
6        }
7    };
8    pemainSepakbola.output();
```
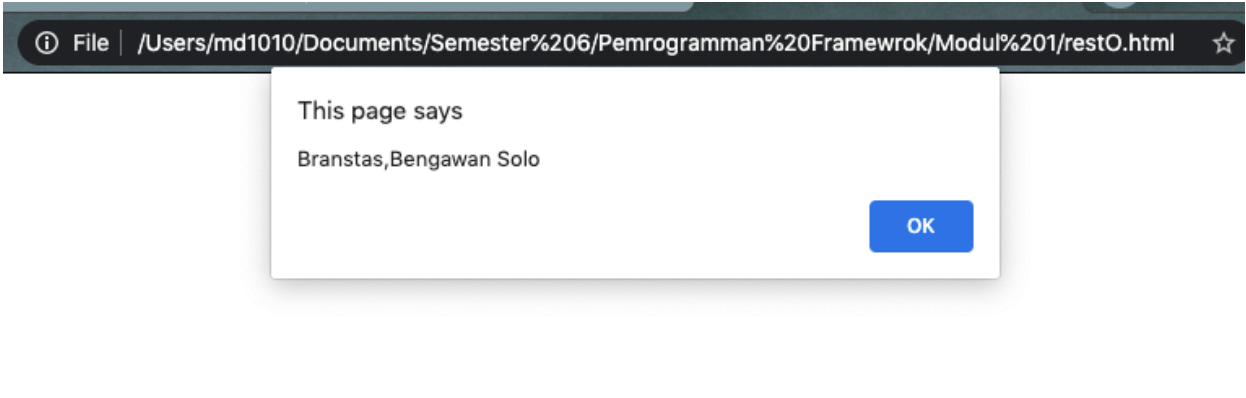
ⓘ File | /Users/md1010/Documents/Semester%206/Pemrogramman%20Framewrok/Modul%201/restructur... ☆

This page says

Mr. Salah is 175 centimeter tall

OK

10	`<>` spread.html > `⊘` html > `⊘` body > `⊘` script
| | ```html
<!DOCTYPE html>
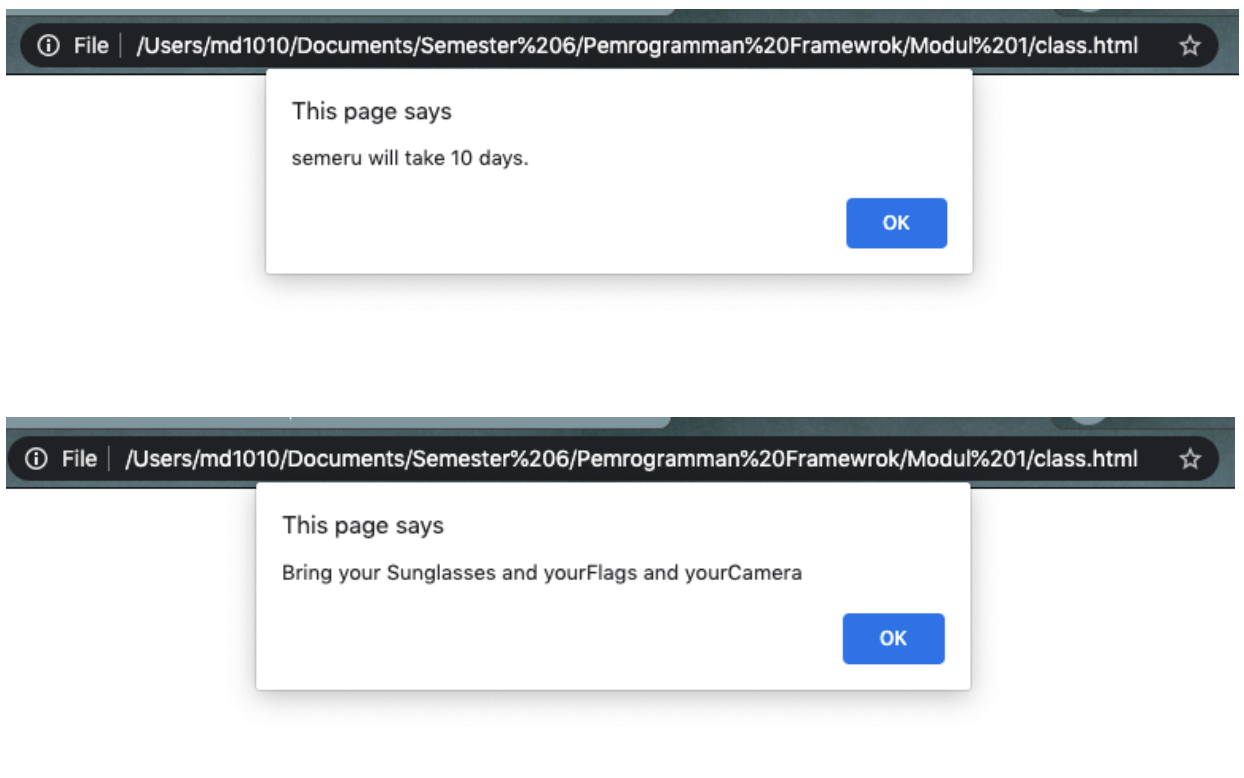<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>learning modern javascript</title>
</head>
<body>
    <script src="spread.js"></script>
</body>
</html>
``` |
| | JS spread.js > ... |
| | ```js
var mountains = ['Semeru', 'Bromo', 'Merapi'];
var mountainsFromJapan = ['Fuji'];

var allMountains = [...mountains, ...mountainsFromJapan];
alert(allMountains);
``` |
	ⓘ File /Users/md1010/Documents/Semester%206/Pemrogramman%20Framewrok/Modul%201/spread.html ☆
	This page says Semeru,Bromo,Merapi,Fuji OK
11	`<>` restO.html > `⊘` html > `⊘` body > `⊘` script
| | ```html
<!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>learning modern javascript</title>
</head>
<body>
    <script src="restO.js"></script>
</body>
</html>
``` |

```js
JS restO.js > ...
  1    var rivers = ['Ciliwung', 'Branstas', 'Bengawan Solo'];
  2    var [first, ...rest] = rivers;
  3
  4    alert(rest);
```

File | /Users/md1010/Documents/Semester%206/Pemrogramman%20Framewrok/Modul%201/restO.html ☆

This page says

Branstas,Bengawan Solo

OK

12

```html
<> class.html > ⬡ html
  1    <!DOCTYPE html>
  2    <html lang="en">
  3    <head>
  4        <meta charset="UTF-8">
  5        <meta http-equiv="X-UA-Compatible" content="IE=edge">
  6        <meta name="viewport" content="width=device-width, initial-scale=1.0">
  7        <title>learning modern javascript</title>
  8    </head>
  9    <body>
 10        <script src="class.js"></script>
 11    </body>
 12  </html>
```

```js
JS class.js > ...
  1    class Holiday {
  2        constructor(destination, days){
  3            this.destination = destination;
  4            this.days = days;
  5        }
  6
  7        info() {
  8            alert(`${this.destination} will take ${this.days} days.`);
  9        }
 10    }
 11
 12    class Expedition extends Holiday {
 13        constructor(destination, days, gear) {
 14            super(destination, days);
 15            this.gear = gear;
 16        }
 17
 18        info() {
 19            super.info();
 20            alert(`Bring your ${this.gear.join(' and your')}`);
 21        }
 22    }
 23
 24    const tripWithGear = new Expedition('semeru', 10, ['Sunglasses', 'Flags', 'Ca
 25    tripWithGear.info();
```

ⓘ File | /Users/md1010/Documents/Semester%206/Pemrogramman%20Framewrok/Modul%201/class.html ☆

This page says

semeru will take 10 days.

OK

ⓘ File | /Users/md1010/Documents/Semester%206/Pemrogramman%20Framewrok/Modul%201/class.html ☆

This page says

Bring your Sunglasses and yourFlags and yourCamera

OK

-- Selamat Mengerjakan –