

TUGAS PERORANGAN

Laporan Modul 1: Modern Javascript

Disusun sebagai

MATA KULIAH: PBF

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TI – 3B / 23



PROGRAM STUDI: D-IV TEKNIK INFORMATIKA

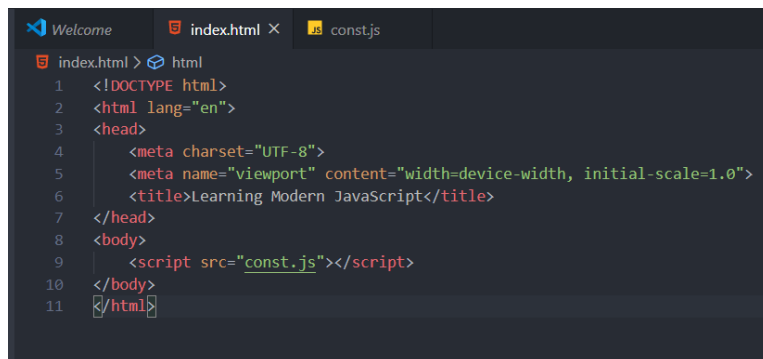
JURUSAN: TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

2020

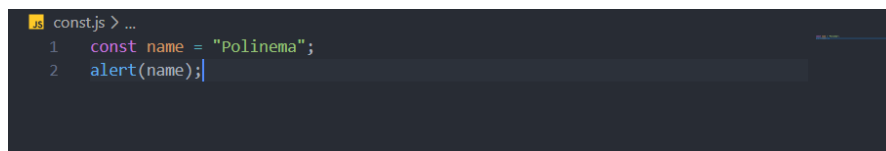
1. Membuat variable dengan const

- Membuat halaman index.html untuk menampilkan alert

A screenshot of a code editor showing the content of index.html. The code is an HTML document with a head section containing meta tags for charset, viewport, and title, and a body section containing a script tag that references const.js.

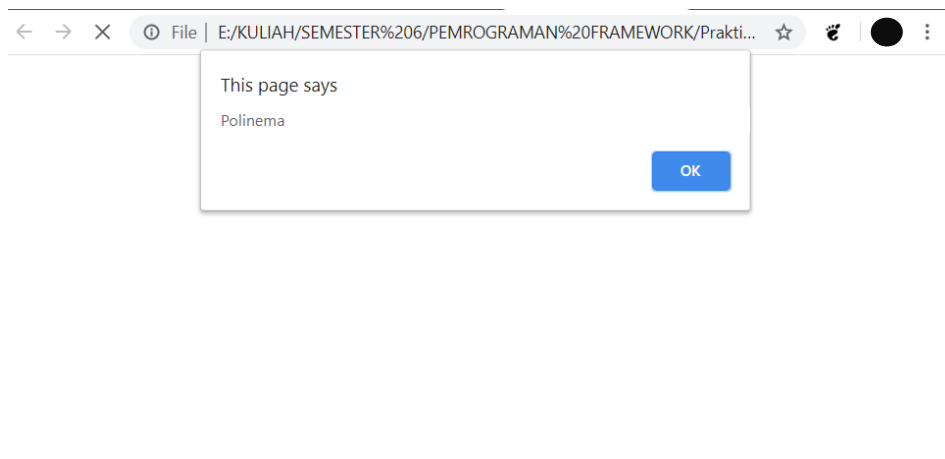
```
index.html > html
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Learning Modern JavaScript</title>
7 </head>
8 <body>
9   <script src="const.js"></script>
10 </body>
11 </html>
```

- Membuat file const.js untuk membuat logic/fungsi alert()
Pada const.js, saya membuat variable name berjenis const dengan nilai polinema, lalu membuat fungsi alert untuk menampilkan nilai dari variable nama, variable const digunakan untuk mendeklarasikan variabel yang readonly dan tidak bias dideklarasikan ulang.

A screenshot of a code editor showing the content of const.js. The code declares a constant variable named 'name' with the value 'Polinema' and calls the alert function to display it.

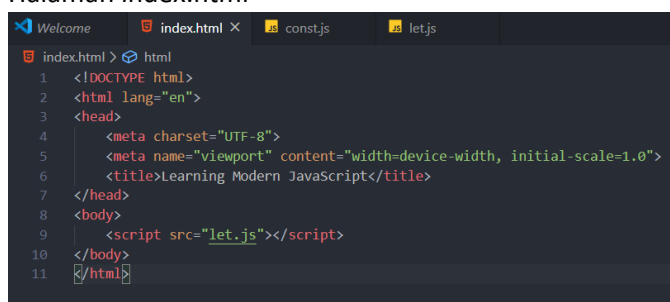
```
const.js > ...
1 const name = "Polinema";
2 alert(name);
```

- Hasil dijalankan akan menampilkan alert



2. Membuat variable dengan let

- Halaman index.html

A screenshot of a code editor showing the content of index.html. The code is an HTML document with a head section containing meta tags for charset, viewport, and title, and a body section containing a script tag that references let.js.

```
index.html > html
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Learning Modern JavaScript</title>
7 </head>
8 <body>
9   <script src="let.js"></script>
10 </body>
11 </html>
```

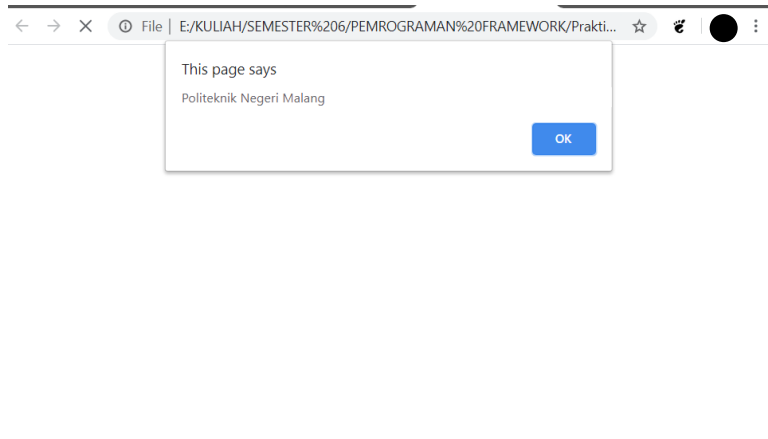
- File javascript
Pada file let.js terdapat kondisi if didalamnya terdapat variabel let yang memiliki nilai String polinema lalu dideklarasikan ulang dan memiliki nilai Politeknik negeri malang, lalu ada fungsi alert untuk menampilkan nilai dari variabel nama

```

1 if (true) {
2   let name = 'Polinema';
3   name = 'Politeknik Negeri Malang';
4   alert(name);
5 }

```

- Hasil menggunakan variable let



3. Membuat template Strings

- Halaman template.html

```

1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Learning Modern JavaScript</title>
7 </head>
8 <body>
9   <script src="template.js"></script>
10 </body>
11 </html>

```

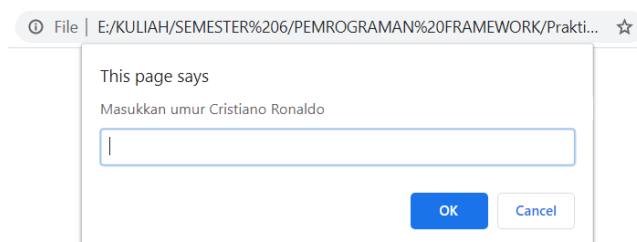
- File template .js

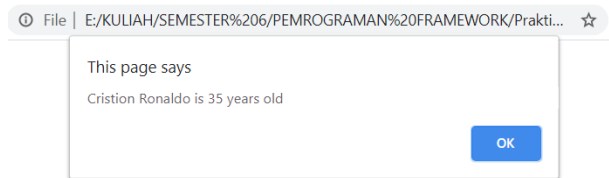
```

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

```

- Hasil





4. Membuat default parameter

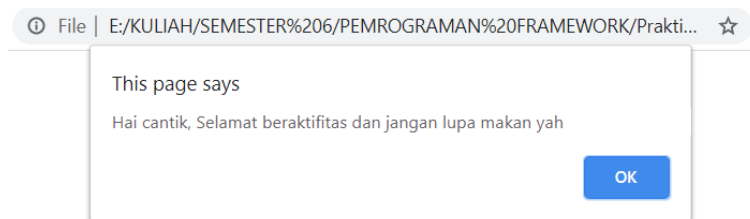
- Halaman defaultParameter.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Learning Modern JavaScript</title>
7 </head>
8 <body>
9   <script src="defaultParameter.js"></script>
10 </body>
11 </html>
```

- Halaman js defaultParameter.js

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

- Hasil



5. Membuat function arrow

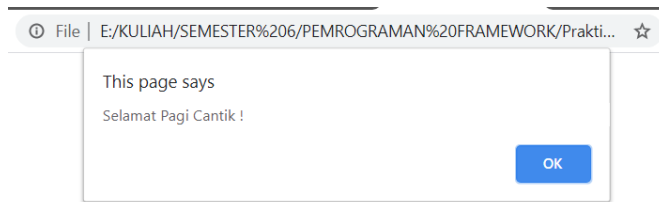
- Halaman arrow.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Learning Modern JavaScript</title>
7 </head>
8 <body>
9   <script src="arrow.js"></script>
10 </body>
11 </html>
```

- Halaman arrow.js

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

- Hasil



6. Membuat fungsi arrow 2

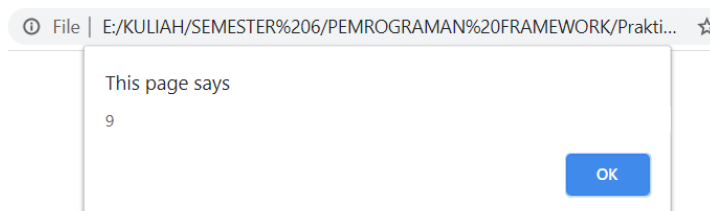
- Halaman arrowf.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Learning Modern JavaScript</title>
7 </head>
8 <body>
9   <script src="arrowf.js"></script>
10 </body>
11 </html>
```

- Membuat halaman arrowf.js

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

- Hasil



7. Membuat destructuring object

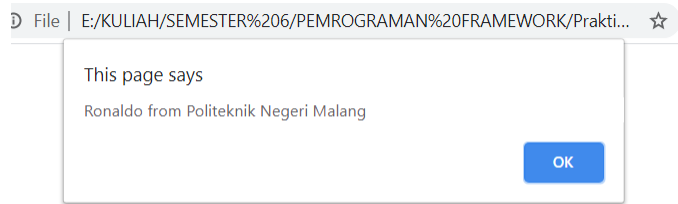
- Halaman destructuring.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Learning Modern JavaScript</title>
7 </head>
8 <body>
9   <script src="destructuring.js"></script>
10 </body>
11 </html>
```

- Halaman 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    |  });
```

- Hasil



8. Restructuring object

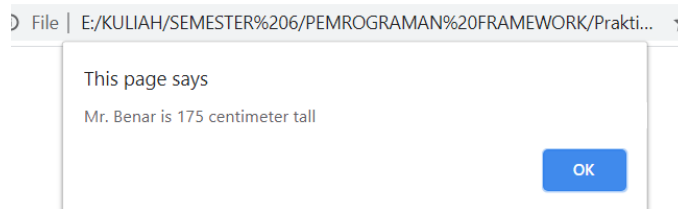
- Halaman restructuring.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Learning Modern JavaScript</title>
7 </head>
8 <body>
9   <script src="restructuring.js"></script>
10 </body>
11 </html>
```

- Halaman restructuring.js

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

- Hasil



9. Membuat Spread and rest operator

Spread merupakan operator yang digunakan untuk memanipulasi array atau objek dan menjadikan syntax lebih clean,

- Halaman spread.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Learning Modern JavaScript</title>
7 </head>
8 <body>
9   <script src="spread.js"></script>
10 </body>
11 </html>
```

- Halaman spread.js

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

- Hasil

This page says

Semeru,Bromo,Merapi,Fuji

OK

- Rest operation , halaman restO.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Learning Modern JavaScript</title>
7 </head>
8 <body>
9   <script src="rest0.js"></script>
10 </body>
11 </html>
```

- Halaman resto.js

```
1 var rivers= ['Ciliwung', 'Brantas', 'Bengawan Solo'];
2
3 var [first, ...rest] = rivers;
4
5 alert(rest);
```

- Hasil

This page says

Brantas,Bengawan Solo

OK

10. Membuat classes, constructor, super

- Class.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Learning Modern JavaScript</title>
7 </head>
8 <body>
9   <script src="class.js"></script>
10 </body>
11 </html>
```

- Class.js

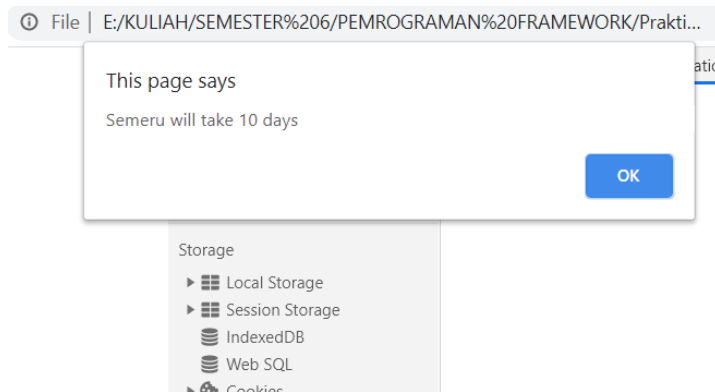
Pada file class.js terdapat 2 class yaitu class Holiday sebagai super class dan class Expedition yang menjadi subclass, pada class Holiday terdapat constructor destination dan days, lalu pada class Holiday juga terdapat fungsi info untuk menampilkan alert yang berisi destination dan days, lalu untuk class yang ke 2 yaitu expedition yang meng-extends class Holiday sebagai superclass, di class Expedition terdapat constructor yang memiliki 3 nilai yaitu destination, days, dan gear. Nilai destination dan days yang merupakan representasi dari class holiday, setelah 2 class tersebut lalu ada variabel tripWithGear dengan menambahkan objek expedition

```

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

```

- Hasil



- Hasil ke dua

