**Pemrograman Berbasis Framework**

**Jobsheet 1**



**Oleh:**

**TI – 3F**

**Sholikin**

**NIM. 1941720140**

**PROGRAM STUDI TEKNIK INFORMATIKA**

**JURUSAN TEKNOLOGI INFORMASI**
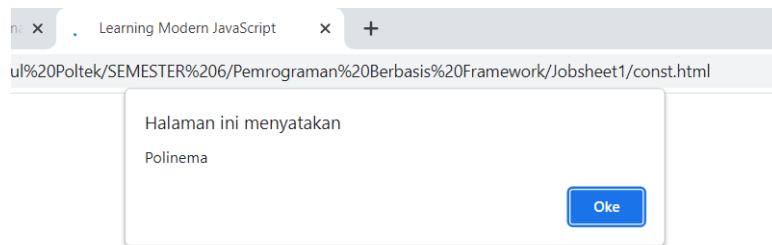
**POLITEKNIK NEGERI MALANG**

**2022**

a. Membuat variabel menggunakan const

```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>
```

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

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Polinema

Oke

b. Membuat variabel menggunakan let

```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>
```

```
const.html        JS const.js        <> let.html        JS let.js        ×

C: > Users > MSI PC > Documents > Matkul Poltek > SEMESTER 6 > Pemrograma
    1    if (true) {
    2        let name = 'Polinema';
    3        name = 'Politeknik Negeri Malang';
    4        alert(name);
    5    }
```
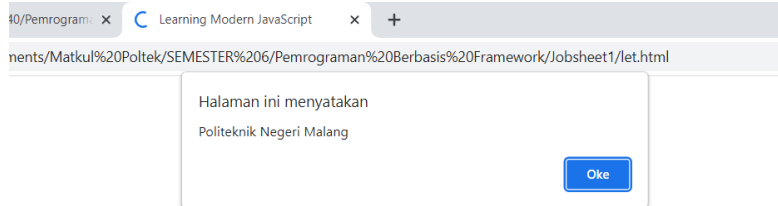
```
40/Pemrogram ×   C Learning Modern JavaScript   ×   +

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        Politeknik Negeri Malang

                                            Oke
```

c. **Membuat Template Strings**

```
<> const.html    JS const.js    <> let.html    JS let.js    <> template.html ×

C: > Users > MSI PC > Documents > Matkul Poltek > SEMESTER 6 > Pemrograman Berbasis Framework > .
    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>
```
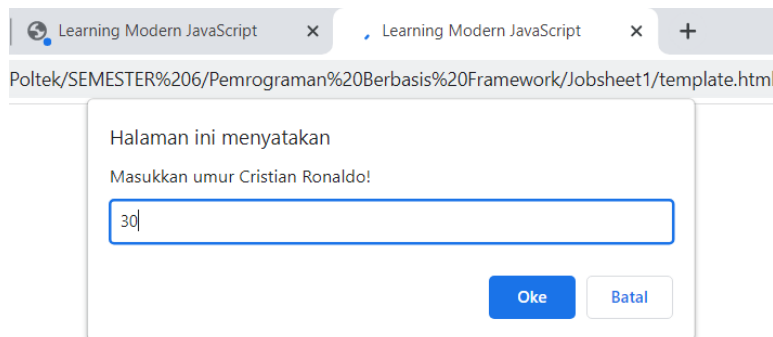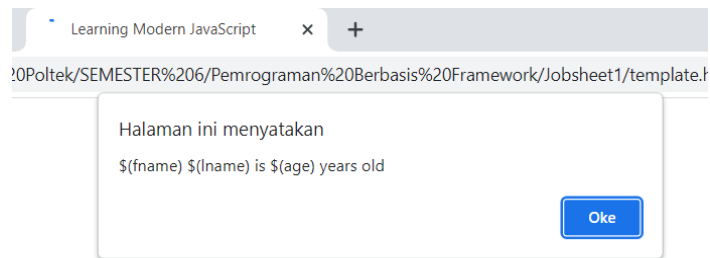
```
let.js        <> template.html    JS template.js ×    <> defaultParameter

MSI PC > Documents > Matkul Poltek > SEMESTER 6 > Pemrograman Berbasis Framev
    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);
    7
```
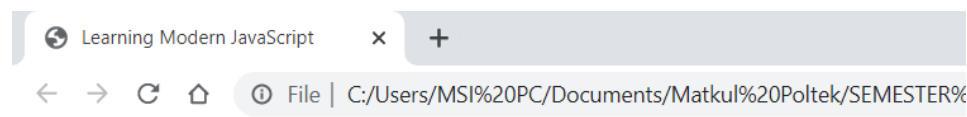
```
    Learning Modern JavaScript    ×    ,  Learning Modern JavaScript    ×    +

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    Masukkan umur Cristian Ronaldo!

    30|

                            Oke        Batal
```

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$(fname) $(lname) is $(age) years old

Oke

d. Membuat default parameters



```
defaultParameters.html    dafaultParameters.js    const.html
C: > Users > MSI PC > Documents > Matkul Poltek > SEMESTER 6 > Pemrograma
 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>
```
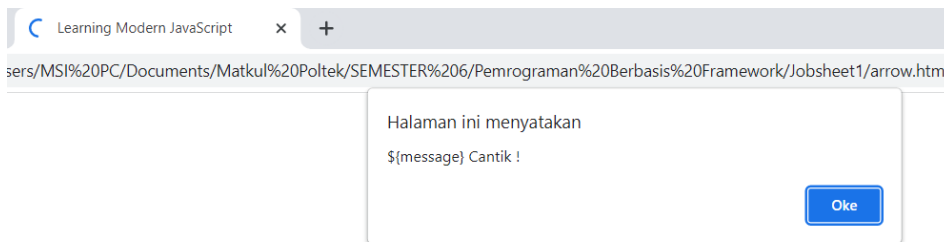
```
const.html    const.js    let.html    let.js    dafaultParameters.js    template.html    template
C: > Users > MSI PC > Documents > Matkul Poltek > SEMESTER 6 > Pemrograman Berbasis Framework > Jobsheet1 > JS dafaultParameters.js > ...
 1   function welcome(user  = 'Cantik', message = 'Selamat beraktifitas dan jangan lupa makan yah'){
 2       alert(`Hai ${user}, ${message}`);
 3   }
 4
 5   welcome();
```



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e. Membuat Arrow Function 1



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

```js
let gretting = message => alert(`{message} Cantik !`);

gretting('Selamat Pagi');
```

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${message} Cantik !

Oke

f. Membuat Arrow Function 2



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

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

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9

Oke

## g. Membuat Destructuring Object



```
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>
```
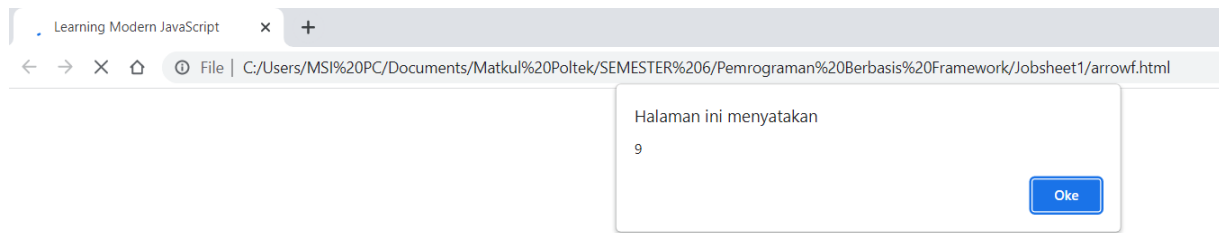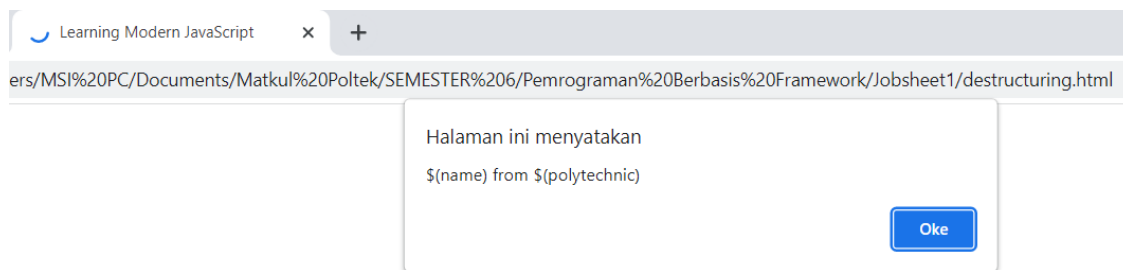


```
1  let polStudent = ({name, polytechnic}) => {
2      alert(`$(name) from $(polytechnic)`);
3  }
4
5  polStudent({
6      name: 'Ronaldo',
7      polytechnic: 'Politeknik Negeri Malang'
8  });
```



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$(name) from $(polytechnic)

Oke

### h. Membuat Destructuring an Array

```
<> arrowf.html      JS arrowf.js      <> destructuring.html      <> array.html  X
Isers > MSI PC > Documents > Matkul Poltek > SEMESTER 6 > Pemrograman Berbasis Framewor
    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="array.js"></script>
    9    </body>
    10   </html>
```
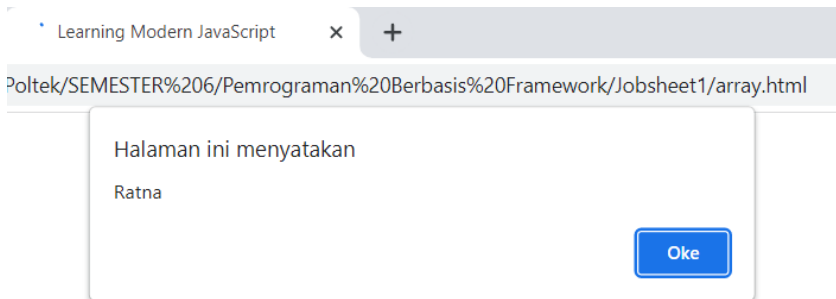
```
<> arrowf.html      JS arrowf.js      <> destructuring.html      <> array.html      JS array.js  X
> Users > MSI PC > Documents > Matkul Poltek > SEMESTER 6 > Pemrograman Berbasis Framework > Jobsheet1 >
    1    let [wife] = ['Ratna', 'Bunga', 'Tiara'];
    2    alert(wife);
```
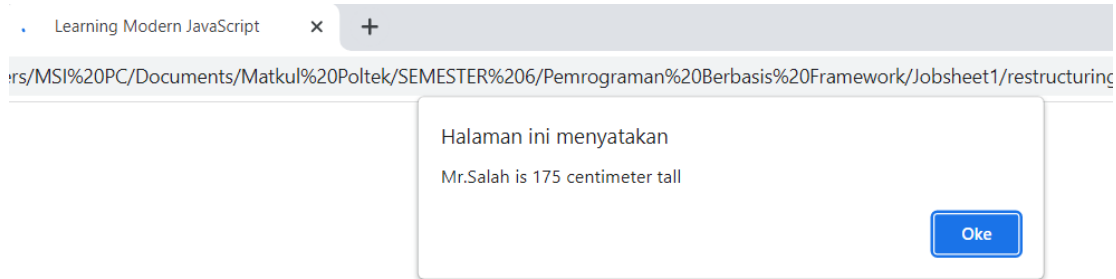
```
• Learning Modern JavaScript        X        +

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Ratna

                                                        Oke
```

### i. Membuat Restructuring

```
ructuring.html  X    <> array.html      JS array.js      <> restructuring.html  X
MSI PC > Documents > Matkul Poltek > SEMESTER 6 > Pemrograman Berbasis Framework >
    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="restructuring.js"></script>
    9    </body>
    10   </html>
```
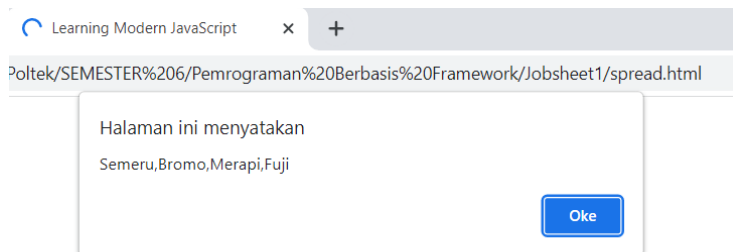
```javascript
var pemainSepakbola = {
    name: 'Salah',
    height: '175',
    output(){
        alert(`Mr.${this.name} is ${this.height} centimeter tall`);
    }
};
pemainSepakbola.output();
```

Learning Modern JavaScript    ×    +

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Mr.Salah is 175 centimeter tall

Oke

j.    Membuat Spread and Rest operator

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

```javascript
var mountains = ['Semeru', 'Bromo', 'Merapi'];
var mountainsFromJapan = ['Fuji'];

var allMountains = [...mountains, ...mountainsFromJapan];
alert(allMountains);
```

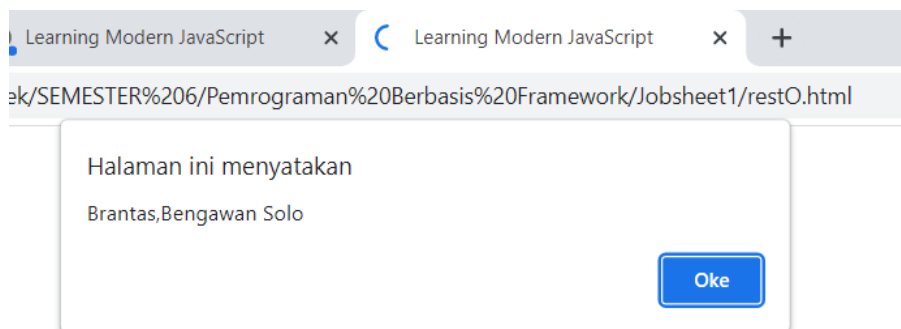Learning Modern JavaScript    ×    +

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Semeru,Bromo,Merapi,Fuji

Oke

restO

```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>
```

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

alert(rest);
```

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Brantas,Bengawan Solo

Oke

## k. Membuat Classes Constructor and Super

```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>
```

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

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

//subclass
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();
```

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Semeru will take $(this.days) days.

Oke

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Bring your Sunglasses and yourFlags and yourCamera

Oke