

REPORT FRAMEWORK BASED PROGRAMMING
WEEK 1



By :

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PROGRAM STUDI D-IV TEKNIK INFORMATIKA
JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG

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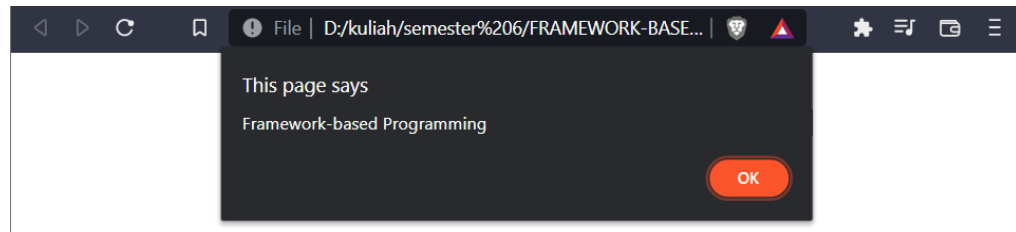


EXPERIMENT

- a. Const variable its mean the value of that variable cannot be changed

```
1  const name = "Framework-based Programming";  
2  alert(name);
```

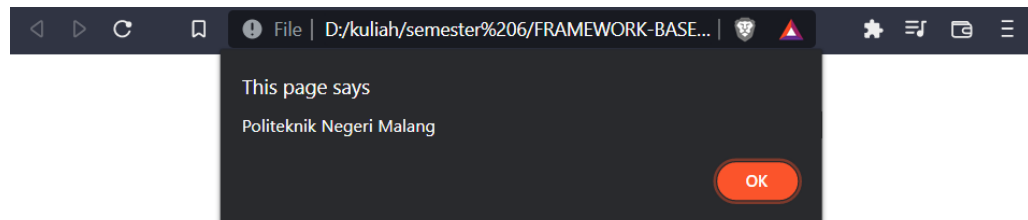
Result



- b. Let variable is dynamic variable so you can change the value after you define it.

```
1  if(true){  
2    let name = 'Framework-based Programming';  
3    name = 'Politeknik Negeri Malang';  
4    alert(name);  
5  }
```

Result

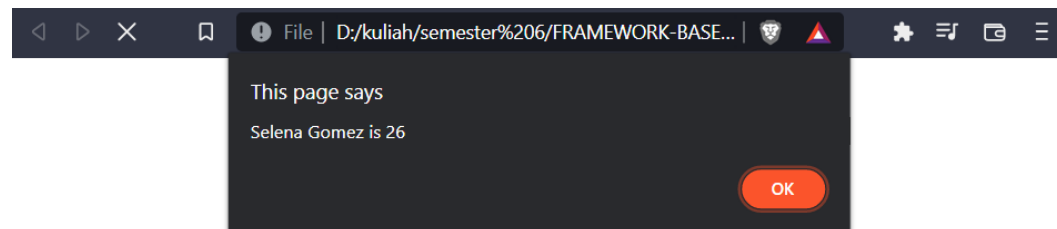
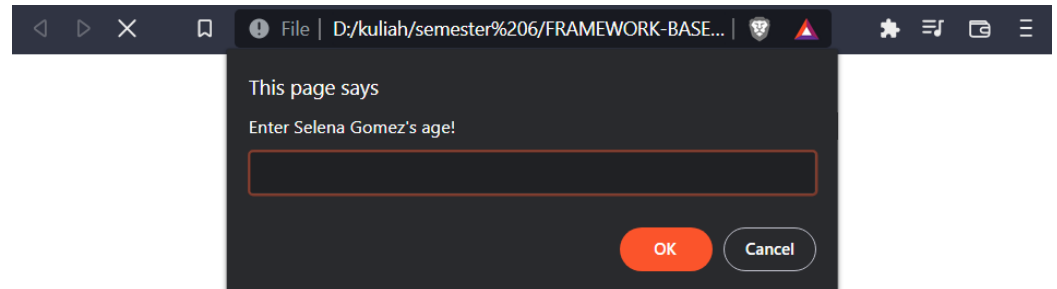




- c. This is the template that we can save/set a value to our variable. We can set the output too so that why we call it as template.

```
1 let fname = 'Selena';
2 let lname = 'Gomez';
3 let age = prompt("Enter Selena Gomez's age!");
4
5 let result = `${fname} ${lname} is ${age}`;
6 alert(result);
```

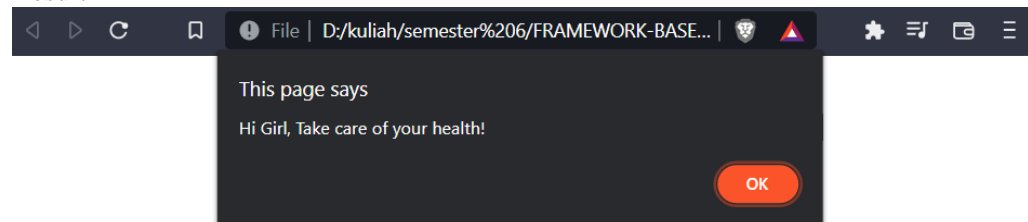
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- d. In this case we using function with name welcome. Welcome function already have value on its parameter so we can call it without sending any parameters.

```
1 function welcome(user = 'Girl', message='Take care
  of your health!'){
2   alert(`Hi ${user}, ${message}`);
3 }
4 welcome();
```

Result

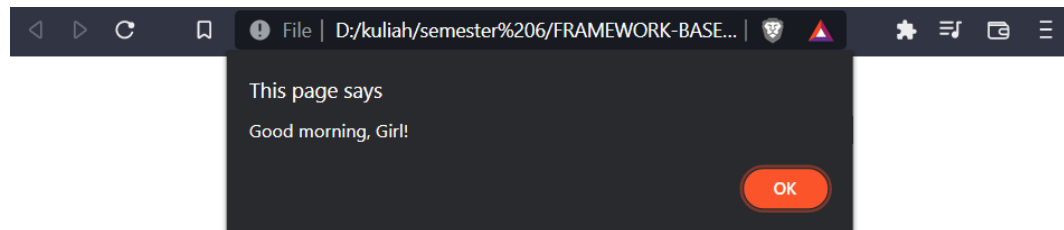




- e. This is easier way how to write a function using arrow.

```
1 let greeting = message => alert(`${message} Girl!`);  
2  
3 greeting('Good morning,');
```

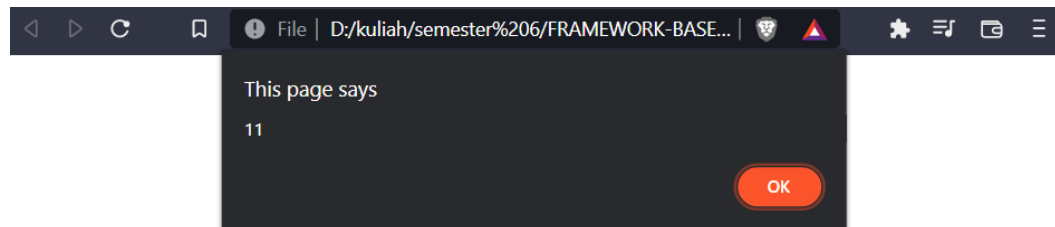
Result



- f. Same as before but this is used to function that need a return.

```
1 const func = (a, b) => {  
2   return a+b;  
3 };  
4 alert(func(8, 3));
```

Result

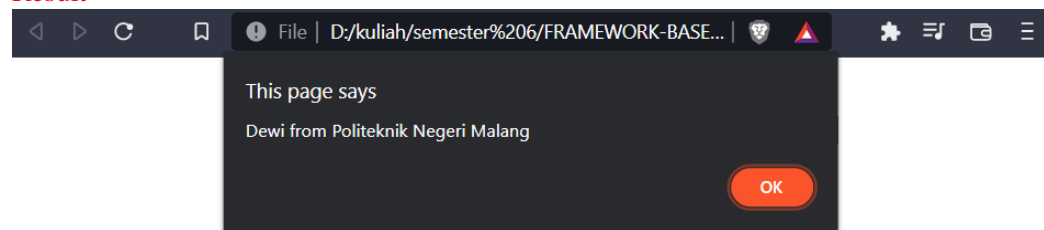




- g. At the first we make an object with the name student and then we can use it by call the object then fill the parameters requirement.

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

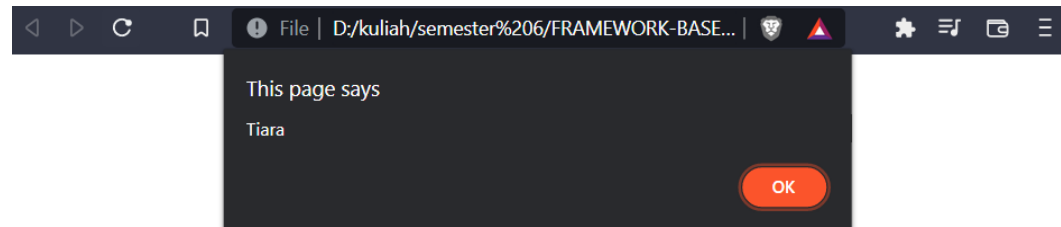
Result



- h. This is an array that we can define value from each index to the more than one variable.

```
1  let [, , friends] = ['Ratna', 'Bunga', 'Tiara'];  
2  alert(friends);
```

Result

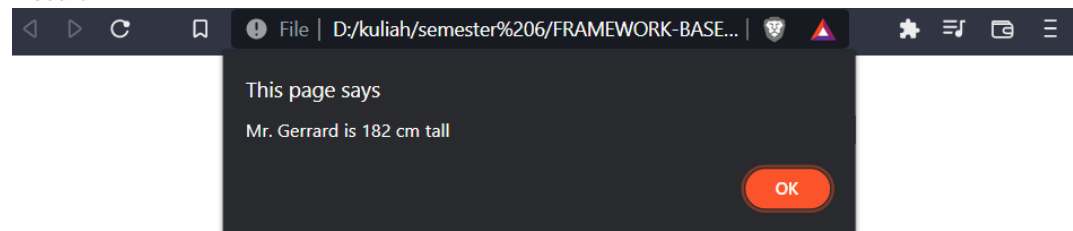




- i. We can write a method inside the object. In this example, inside object `footballPlayer` we have a method `output`. So we can call that method after we use the object.

```
1  var footballPlayer = {  
2      name: 'Gerrard',  
3      height: '182',  
4      output(){  
5          alert(`Mr. ${this.name} is ${this.height} cm  
6              tall`)  
7      }  
8  };  
9  footballPlayer.output();
```

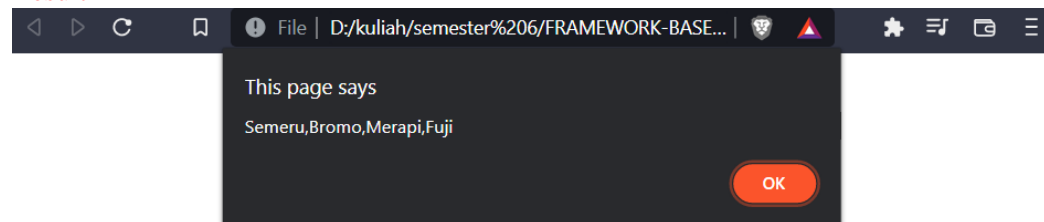
Result



- j. This is how we can save a multiple value inside one variable. We merged the 2 array to the one variable.

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

Result

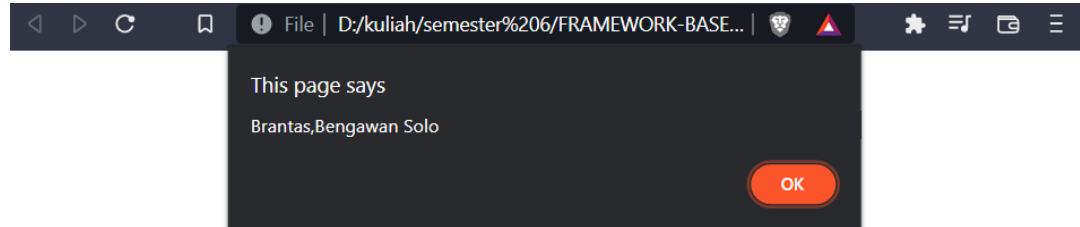




- k. Inside of array we can separate it to some variable. We can use triple dot (...) with the name of variable to call all value inside array from that index when we use triple dot until last index.

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

Result





1. This is a one of example of object oriented programming using javascript. We can use an Extends operation too using javascript for oop concept.

```
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  class Expedition extends Holiday{
12      constructor(destination, days, gear){
13          super(destination, days);
14          this.gear = gear;
15      }
16
17      info(){
18          super.info();
19          alert(`Bring your ${this.gear.join(' and your ')}`);
20      }
21  }
22
23  const tripWithGear = new Expedition('Semeru', 10, ['Sunglasses','Flags',
24  'Camera']);
25  tripWithGear.info();
```

Result

