

MODUL I

INTRODUCING JAVASCRIPT



WEB DEVELOPMENT DIVISION

SOFTWARE CLUB

CERC 2020

LATIHAN I : Variable, Array & Object

Variable

```
var a = 34;
var b = 21;
a = 2;
b + a

var c;
var e = "Web Development"
var f = "Division"
var full = e+f + 'Computer Engineering';

5 + "34" // "534"
5 - "4" // 1
10 % 5 // 0
5 % 10 // 5
"Java" + "Script" // "JavaScript"
" " + " " // " "
" " + 0 // " 0"
true + true // 2
true + false // 1
false + true // 1
false - true // -1
3 - 4 // -1
"Bob" - "bill" // NAN
```

Array & Object

```
var database = [
  {
    username: "nama_lengkap_praktikan1",
    password: "supersecret"
  },
  {
```

```

        username: "nama_lengkap_praktikan2",
        password: "supersecret"
    }
];
// dalam object belajar key dan value; key di sebelah kiri tanda ":" dan value
disebelah kanan tanda ":"

// 1. Melihat key username pada array 0 database
console.log(database[0].username);

// 2. mengganti data (value) username pada array 0 database
database[0].username = "nama_panggilan_praktikan1";
console.log('pergantian data', database);

// 3. Menambahkan data (key dan value) pada array 1 database
database[1].role = "Superadmin";
console.log('penambahan data', database);

```

LATIHAN II : ES6 (let,const,scope,class)

```

let y=2;
if (true){
    let y=3;
}
console.log("Scope pengkondisian Let", y) // 2
function checkY() {
    let y = 4;
}
checkY();
console.log("Scope function let", y); // 2

const name = "namamu";
const city = "asal";
const message = `Hello ${firstName} have I met you before? I think we met in ${city}. last summer no???`;

```

```

console.log("Contoh penggunaan const/let didalam string = ", message);

class Animal {
    constructor(name, type, color) {
        this.name = name;
        this.color = color;
        this.type = type;
    }

    types() {
        console.log(`My name is ${this.name} and I'm a ${this.type}`);
    }
}

class Mamal extends Animal {
    constructor(name, type, color) {
        super(name, type, color)
    }
    sound() {
        console.log(`Moooo I'm ${this.name} and I'm a ${this.color} $
{this.type}`);
    }
}

const cow = new Mamal('Shelly', 'cow', 'brown');
console.log("dibawah ini pemanggilan method pada class tanpa extends");
cow.types();
console.log("dibawah ini pemanggilan method pada class dengan extends");
cow.sound();

```

LATIHAN III : Data Structure (map,filter,reduce)

```

const numbers = [1, 2, 3, 4];
const doubled = numbers.map(item => item * 2);

```

```
console.log(doubled); // [2, 4, 6, 8]

const evens = numbers.filter(item => item % 2 === 0);
console.log(evens); // [2, 4]

const sum = numbers.reduce(function (result, item) {
  return result + item;
}, 0);
console.log(sum); // 10

const pets = ['dog', 'chicken', 'cat', 'dog', 'chicken', 'chicken', 'rabbit'];

const petCounts = pets.reduce(function(obj, pet){
  if (!obj[pet]) {
    obj[pet] = 1;
  } else {
    obj[pet]++;
  }
  return obj;
}, {});

console.log(petCounts);

/*
Output:
{
  dog: 2,
  chicken: 3,
  cat: 1,
  rabbit: 1
}
*/
```

LATIHAN IV : JS DOM Data transfer

This page says

kamu kasih harapan palsu kepadaku !

OK

kamu kasih harapan palsu (Announce!)

kamu kasih harapan palsu kepadaku !

