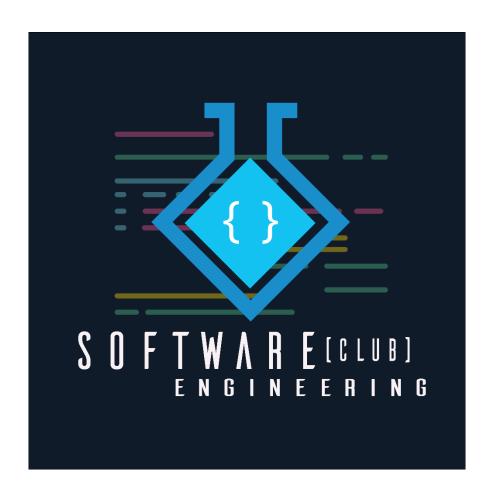
MODUL I INTRODUCING JAVASCRIPT



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"
     },
     {
```

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

```
let y=2;
if (true){
  let y=3;
}
console.log("Scope pengkondisan 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

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