



JavaScript

Condition & Comparasion

Pertemuan 17-18

Comparasion Operators

semua operator perbandingan akan menghasilkan nilai “true” dan “false”

```
console.log( 3 > 1 ); // true  
console.log( 3 == 2 ); // false  
console.log( 3 != 1 ); // true
```

```
console.log('Z' > 'A'); // true  
console.log('Glow' > 'Glee') // true  
console.log('Bee' > 'Be') //true
```

```
console.log('2' > 1); // true, string '2' menjadi number 2  
console.log('01' == 1); // true, string '01' menjadi number 1  
console.log('1' === 1); // false, string '1' , memiliki tipe data berbeda number 1  
console.log('1' !== 1); // true, string '1' , memiliki tipe data berbeda number 1
```

Conditional Statement

If Statement

```
if(condition){  
    //letak code statement ketika condition true  
}  
  
//CONTOH  
if(nilai == 90){  
    document.write("Nilai: "+nilai+" ,Lulus");  
}
```

Conditional Statement

If Else Statement

```
if(condition1){  
    //letak code statement ketika condition1 true  
}  
else{  
    //letak code statement ketika condition1 false  
}  
  
//CONTOH  
let nilai;  
nilai= 80;  
if(nilai >= 80){  
    document.write("nilai:"+nilai+" ,LULUS");  
}else{  
    document.write("nilai:"+nilai+" ,TIDAK LULUS");  
}
```

If Else Statement

```
if(condition1){  
    //letak code statement ketika condition1 true  
}  
else if(condition2){  
    //letak code statement ketika condition1 false, dan condition2 true  
}  
else{  
    //letak code statement ketika condition1 false, dan condition2 false  
}
```

```
//CONTOH  
let nilai;  
nilai= 80;  
if(nilai >= 80){  
    document.write("nilai:"+nilai+" ,LULUS");  
}  
else if(nilai >= 60){  
    document.write("nilai:"+nilai+" ,Ujian Ulang");  
}  
else{  
    document.write("nilai:"+nilai+" ,TIDAK LULUS");  
}
```

Switch Statement

```
let a = 2 + 2;  
switch (a) {  
  case 3:  
    console.log("Too small");  
    break;  
  case 4:  
    console.log("Exactly");  
    break;  
  case 5:  
    console.log("Too big");  
    break;  
  default:  
    console.log("I don't know such values");  
}
```

Logical Operator

Terdapat 3 logical operator || OR, && AND, ! NOT

Contoh "OR"

```
console.log(true || true); // true  
console.log(true || false); // true  
console.log(false || true); // true  
console.log(false || false); // false
```

Contoh “AND”

```
console.log(true && true); // true  
console.log(true && false); // false  
console.log(false && true); // false  
console.log(false && false); // false
```

Contoh “NOT”

```
let grade = "A";  
let cumlaude = grade == "A";  
console.log(cumlaude); // true  
console.log(!cumlaude); // false
```


Perulangan (Loop)

□ While

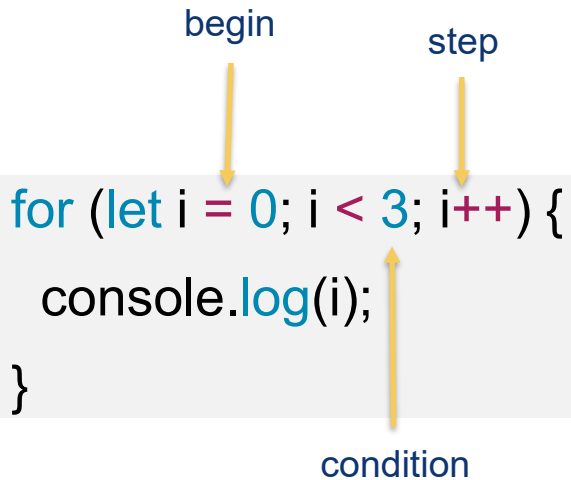
```
let i = 0;
while (i < 3) {
  // akan menampilkan 0, kemudian 1, dan 2
  console.log(i);
  i++;
}
```

□ Do While

```
let i = 0;
do {
  // akan menampilkan 0, kemudian 1, dan 2
  console.log(i);
  i++;
} while (i < 3);
```

Perulangan (Loop)

FOR



The diagram illustrates the components of a JavaScript `for` loop. The code snippet is: `for (let i = 0; i < 3; i++) { console.log(i); }`. Three yellow arrows point to specific parts of the code: one from the label 'begin' to the initial value `0`, one from the label 'step' to the increment `i++`, and one from the label 'condition' to the comparison `i < 3`.

```
for (let i = 0; i < 3; i++) {  
  console.log(i);  
}
```

begin

step

condition

