

Programming Fundamental



Exploring

#4 Logic, If & Switch

Assignment Operators

Operator	Example	Same As
=	x = y	x = y
+=	x += y	x = x + y
-=	x -= y	x = x - y
*=	x *= y	x = x * y
/=	x /= y	x = x / y
%=	x %= y	x = x % y
<<=	x <<= y	x = x << y
>>=	x >>= y	x = x >> y
>>>=	x >>>= y	x = x >>> y
&=	x &= y	x = x & y
^=	x ^= y	x = x ^ y
=	x = y	x = x y
**=	x **= y	x = x ** y

Assignment Operators

```
var usiaAndi = 40;
```

```
console.log(usiaAndi *= 2);
```

```
console.log(usiaAndi /= 2);
```

```
console.log(usiaAndi += 2);
```

```
console.log(usiaAndi -= 2);
```

```
console.log(usiaAndi %= 2);
```

Comparison Operators

==	value sama, tapi data type beda
===	value & data type sama
>	lebih dari
<	kurang dari
>=	lebih dari sama dengan
<=	kurang dari sama dengan

Logical Operators

&&	and (keduanya benar, maka TRUE)
 	or (salah satu benar, maka TRUE)
!	not (membalik logika TRUE/FALSE)

Comparison Operators

```
var x = 5;  
var y = '5';
```

```
console.log(x == y);  
console.log(x === y);  
console.log(x > y);  
console.log(x >= y);  
console.log(x < y);  
console.log(x <= y);
```

Logical Operators

```
var x = 5;  
var y = '5';  
var z = 6;
```

```
console.log(x===y && y<z);  
console.log(x===y || y<z);  
console.log(!(x===y || y<z));
```

if, else if & else

if (*condition*) {*program*;

else if (*condition*) {*program*;

else {*program*;

if, else if & else

```
var nilai = 92;
```

```
if (nilai > 80) {  
  console.log('Excellent!');  
}  
else if (nilai >= 60 && nilai <= 80){  
  console.log('Good job!');  
}  
else {  
  console.log('Don\'t give up!');  
}
```


if, else if & else

```
let jomblo = true;
```

```
if (jomblo) {  
    console.log('Masih jomblo!');  
}
```

```
else {  
    console.log('Udah taken!');  
}
```

```
var job = 'guru';
```

Switch

```
switch (job) {  
  case 'guru':  
    console.log('Kerjaannya ngajar.');
```



```
    break;  
  case 'sopir':  
    console.log('Kerjaannya nyetir.');
```



```
    break;  
  case 'polisi':  
    console.log('Kerjaannya nilang.');
```



```
    break;  
  default:  
    console.log('Ada aja kerjaannya.');
```



```
}
```

Switch

```
<script>
var job;
job = prompt('Apa profesi Anda?');

switch (job) {
  case 'guru':
    console.log('Kerjaannya ngajar.');
```

break;

```
  case 'sopir':
    console.log('Kerjaannya nyetir.');
```

break;

```
  case 'polisi':
    console.log('Kerjaannya nilang.');
```

break;

```
  default:
    console.log('Ada aja kerjaannya.');
```

}

```
</script>
```

Switch

2 Variabel

```
let alaskaki = 'sepatu';  
let warna = 'merah';
```

```
switch (true) {  
  case (alaskaki == 'sepatu' && warna == 'merah'):  
    console.log('Saya suka sepatu merah.');
```

break;

```
  case (alaskaki == 'sepatu' && warna == 'biru'):  
    console.log('Saya suka sepatu biru.');
```

break;

```
  case (alaskaki == 'sandal' && warna == 'merah'):  
    console.log('Saya suka sandal merah.');
```

break;

```
  case (alaskaki == 'sandal' && warna == 'biru'):  
    console.log('Saya suka sandal biru.');
```

break;

```
  default:  
    console.log('Tak suka alas kaki merah/biru.');
```

}

Solve It!

Switch 3 Var

alas: sandal / sepatu

warna: merah / biru

harga: murah / mahal

Solve It with IF then SWITCH! #10

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Elements

Console

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Solve It! #11

Dengan object Date() dan If,
tentukan nama Bulan saat ini!

```
D:\>node zzz.js  
Saat ini bulan 9 : Oktober
```

Solve It! #12

Dengan object Date() dan If,
tentukan waktu saat ini!

```
Hari ini Kamis, 25 Januari 2018  
Pukul 11:49:04
```


Solve It! #13

$$\text{IMT} = \text{massa(kg)} / \text{tinggi(meter)}^2$$

- a. $\text{IMT} < 18.5$ artinya berat badan kurang,
- b. $18.5 - 24.9$ artinya berat badan ideal,
- c. $25.0 - 29.9$ artinya BB berlebih,
- d. $30.0 - 39.9$ artinya BB sangat berlebih,
- e. $\text{IMT} > 39.9$ artinya obesitas.

```
D:\Purwadhika\Lintang Course PPT\7 Javascript\Solusi Soal>node 11im
```

```
Massa 67 kg & tinggi 1.78 m  
IMT = 21.146319909102385, BERAT BADAN ANDA IDEAL!
```

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JS

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