Website development

Lecture 4

Arithmetic Operators

Operator	Description
+	Addition
-	Subtraction
*	Multiplication
/	Division
**	Exponentiation
%	Division remainder
++	Increment
--	Decrement

Arithmetic Operators

```
console.log(3 ** 4);

console.log(10 ** -2);

console.log(2 ** 3 ** 2);

console.log((2 ** 3) ** 2);
```

→

```
> 81
> 0.01
> 512
> 64
```

Arithmetic Operators

Operator	Short expression	Full expression
+=	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

Comparison Operators

Operator	Description
==	Is equal?
===	Are data-type and value equal?
!=	Is not equal?
!==	Are data-type and value not equal?
>	Is greater?
<	Is less?
>=	Is greater or equal?
<=	Is less or equal?

Comparison Operators

```
var one = 1;
var one_again = 1;
var one_string = "1";
```

```
console.log(one ==  one_again);   // true
console.log(one === one_again);   // true
console.log(one ==  one_string);  // true.
console.log(one === one_string);  // false.
```

Logical Operators

Operator	Name	Description
&&	AND	Returns **true** only if both expressions are **true**
||	OR	Returns **true** if at least one of the expressions is **true**
!	NOT	Returns the inverse of the value of a boolean expression. false if true, true if false.

Logical Operators

&&		
TRUE	TRUE	TRUE
TRUE	FALSE	FALSE
FALSE	TRUE	FALSE
FALSE	FALSE	FALSE

Logical Operators

TRUE	TRUE	TRUE
TRUE	FALSE	TRUE
FALSE	TRUE	TRUE
FALSE	FALSE	FALSE

Thank you for your attention