Date ___/___/___

Operators & conditional statements

Comments in JS

Part of code which is not executed.

// This is a single line comment.
/*
    This is a Multi
    Line comment.
*/

operators in JS

Used to perform some operations on data

Suppose we have an expression
$a = 1$ & $b = 2$

expression = (a) (+) (b) → operands
                    ↳ operator

1) **Arithmetic operator**
→ $+, -, *, /$ (basic operator)

→ % → ($a\%b$ prints the remainder when
       ↳(Modulous) a is divided b)

→ $**$ ($a**b$ means a^b).
       ↳ exponention

→ Unary operators

1.) increment → a++ same as a = a+1;
2.) Decrement → a-- same as a = a-1;
3.) Post increment → a++
4.) Pre increment → ++a
5.) Post decrement → a--
6.) Pre decrement → --a

2.) Assignment operator :-

To assign values.

In Java script,

Left = right

value propagates
from right side
gets stored in
left side.

Types of assignment operator

1.) =   ,   a = 5;
2.) +=   ,   a += 5;   → a = a + 5;
3.) -=   ,   a -= 5;   → a = a - 5;
4.) *=   ,   a *= 5;   → a = a * 5;
5.) %=   ,   a %= 5;   → a = a % 5;
6.) **=   ,   a **= 5; → a = a** 5;

3.) Comparision operators:-

⦿ Used to compare 2 values.

1.) Equal to $==$
2.) Equal to & type $===$
3.) Not equal to $!=$
4.) Not Equal to & type $= !==$
5.) $>, >=, <, <=$

4.) ~~operators~~ Logical operators :-

1.) Logical AND $\&\&$ → Gives true if all the conditions are true or else false.

2.) Logical or $||$ → Gives true if any one or more conditions are true.

3.) Logical Not $!$ → Gives the opposite. if cond^n true then false if cond^n false then true.

Conditional Statements :-

Syntax :-

1)
```
if (condition) {
    // code
}
```

2) if - else if statements

```
if (condition) {        }    if its true this
                               block will execute
    // code
}
else {                  }    or else this block
    // code                    will execute.
}
```

3) if else-if else statements

```
if (condition) {              }
    // code
}

else if (condition) {         }      whichever
    // code                           block condition
}                                      will be true
                                       it will get
else {                        }       executed.
    // code
}
```