

Assignment - 1

JAVA.

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Header :-

- ⇒ Special Symbol perform special operations.
- ⇒ Used. to execute the program.

Types :-

- 1) Arithmetic operations.
- 2) Assignment operators
- 3) Comparison operators
- 4) Logical operator
- 5) Bitwise operator.

Arithmetic operator

Operator	Name	Example.
+	Addition	$x + y$
-	Subtraction	$x - y$
*	Multiplication	$x * y$
/	Division	x / y
%	Module.	$x \% y$

Assignment operator

Operator.	Example.
=	$x = 5$ $x = 5$
+=	$x += 3$ $x = x + 3$
-=	$x -= 3$ $x = x - 3$

$*$	$x * 5$	$x = x * 5$
$/$	$x / 5$	$x = x / 5$
$\%$	$x \% 5$	$x = x \% 5$
$!$	$x ! 3$	$x = x ! 3$
$^$	$x ^ 3$	$x = x ^ 3$
$>>$	$x >> 3$	$x = x >> 3$
$<<$	$x << 5$	$x = x << 5$

Comparison operators

Operator	Name	Example
$==$	equal to	$x == y$
$!=$	not equal to	$x != y$
$>$	greater than	$x > y$
$<$	less than	$x < y$
$>=$	Greater than or equal to	$x >= y$
$<=$	less than or equal to	$x <= y$

Logical Operator

Operator	Name	Example
$\&\&$	logical and	$x < 5 \&\& x < 10$
$\ \ $	logical or	$x < 5 \ \ x < 4$
$!$	logical not	$!(x < 5 \&\& x < 10)$

Bitwise operators

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Operator	Name	Example
&	Bitwise AND	$x \& y$
^	Bitwise OR	$x \wedge y$
	Bitwise inclusive	$x y$
~	Complement	$\sim y$
<<	left shift	$x \ll y$
>>	Right shift	$x \gg y$

Increment / Decrement operator

Operator	Name	Example
++	Post increment	$x++$
	Pre increment	$++x$
--	Post Decrement	$x--$
	Pre Decrement	$--x$

Control Statements

Executed according to the flow of program

Types

- i) Decision making statements
- If statements
 - Switch statement

2) Looping statements

→ do while
↳ while
↳ for loop

3) Lump statements:

→ Break statements
↳ Continue statements

IF Statement

→ Simple IF

↳ IF else

↳ IF else - if

↳ Nested if