

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 operator
- 4) Logical operator
- 5) Bitwise operator.

1) Arithmetic operator:-

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

Assignment operations:-

operator	Example	
$=$	$x = 5$	$x = 5$
$+=$	$x += 3$	$x = x + 3$
$-=$	$x -= 3$	$x = x - 3$
$*=$	$x *= 5$	$x = x * 5$
$/=$	$x /= 5$	$x = x / 5$
$\%=$	$x \% = 5$	$x = x \% 5$
$!=$	$x ! = 3$	$x = x ! 3$
$\wedge =$	$x \wedge = 3$	$x = x \wedge 3$
$>>=$	$x >> = 5$	$x = x >> 5$
$<<=$	$x << = 5$	$x = x << 5$

Comparison operator:-

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 operators:-

operators	name	example
&	logical and	$x \& y$
	logical or	$x y$
!	logical not	$!(x \& y)$

Bitwise operators:-

operators	name	example
&	Bitwise AND	$x \& y$
	Bitwise OR	$x y$
^	Bitwise inclusive	$x ^ y$
~	complement	$\sim x$
<<	left shift	$x \ll y$
>>	right shift	$x \gg y$

Increment / decrement order:-

operator	name	example
++	post increment	$x++$
	pre increment	$++x$
--	post decrement	$x--$
	pre decrement	$--x$

Control statement:-

executed according order smooth flow of Program

Types:-

1) Decision making statement:-

- if statements
- switch statement

2) Looping statements:-

- do while
- while
- for loop

3) Lump statements:-

- Break statements
- Continue statements

* Decision making statements:-

1) if statement:-

- evaluated condition
- divided separate condition
- condition either true or false