OPERATORS

ARITHMETIC OPERATOR

Operator	Meaning	Example
+	Addition	8 + 10
-	Subtraction	10 – 8
*	Multiplication	12 * 2
/	Division	10 / 5
%	Modulus	10 % 6

SHORTCUT ASSIGNMENT OPERATOR

Shortcut Assignment Operators

Operator	Use	Description
+=	op1 += op2	Equivalent to op1 = op1 + op2
-=	op1 -= op2	Equivalent to op1 = op1 - op2
*=	op1 *= op2	Equivalent to op1 = op1 * op2
/=	op1 /= op2	Equivalent to op1 = op1 / op2
%=	op1 %= op2	Equivalent to op1 = op1 % op2
&=	op1 &= op2	Equivalent to op1 = op1 & op2
=	op1 = op2	Equivalent to op1 = op1 op2
^=	op1 ^= op2	Equivalent to op1 = op1 ^ op2
<<=	op1 <<= op2	Equivalent to op1 = op1 << op2
>>=	op1 >>= op2	Equivalent to op1 = op1 >> op2
>>>=	op1 >>>= op2	Equivalent to op1 = op1 >>> op2

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RELATIONAL OPERATOR

Operator	Use	Description
>	op1 > op2	op1 is greater than op2
>=	op1 >= op2	op1 is greater than or equal to op2
<	op1 < op2	op1 is less than op2
<=	op1 <= op2	op1 is less than or equal to op2
==	op1 == op2	op1 and op2 are equal
!=	op1 != op2	op1 and op2 are not equal

LOGICAL OPERATOR

Operator	Name	Example	Description
8.6	AND operator	A & & B;	If either of the values are zero the value of the expression is zero, otherwise the value of the expression is 1. If the left hand value is zero, then the right hand value is not considered.
ï	OK operator	A § B;	If both of the values are zero then the value of the expression is 0 otherwise the value of the expression is 1. If the left hand value is non-zero, then the right hand value is not considered.
ì	NOT operator	tA:	Not operator is applied to a non-zero value then the value is zero, if it is applied to a zero value, the value is 1

INCREMENT OR DECREMENT OPERATOR

Operator	Purpose	Example	Notes
++	Pre-increment (++variable)	int i = 6; int j = ++i; i is 7, j is 7	
	Post-increment (++variable)	int i = 6; int j = i++; i is 7, j is 6	The value of i is assigned to j before i is incremented. Therefore, j is assigned 6.
	Pre-decrement (variable)	int i = 6; int j =i; i is 5, j is 5	
	Post-decrement (variable)	int i = 6; int j = i; i is 5, j is 6	The value of i is assigned to j before i is decremented. Therefore, j is assigned 6.

TERNARY OPERATOR

RESULT = TESTCONDITION? VALUE1:

VALUE2