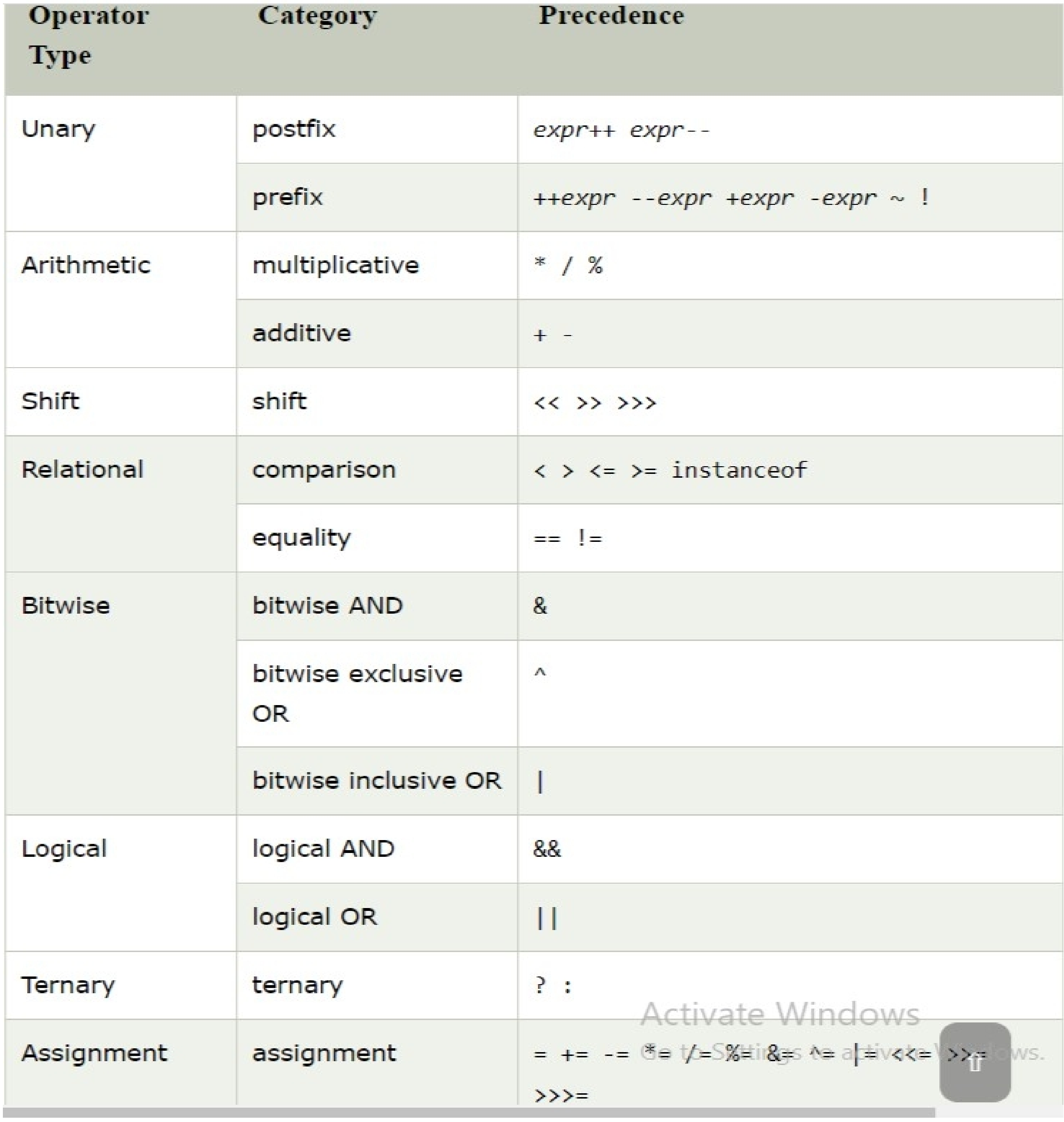
Array

Array is a object container that can hold a fixed number of values of same data type. Length of an array is fixed we need to define its size once we create it.

Int array[]=new int[10];
Size or length is 10
Index start and end at 0 to 9

Operators



Operator Type	Category	Precedence
Unary	postfix	*expr*++ *expr*--
	prefix	++*expr* --*expr* +*expr* -*expr* ~ !
Arithmetic	multiplicative	* / %
	additive	+ -
Shift	shift	<< >> >>>
Relational	comparison	< > <= >= instanceof
	equality	== !=
Bitwise	bitwise AND	&
	bitwise exclusive OR	^
	bitwise inclusive OR	|
Logical	logical AND	&&
	logical OR	||
Ternary	ternary	? :
Assignment	assignment	= += -= *= /= %= &= ^= |= <<= >>= >>>=

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Simple Assignment Operator

=	Simple assignment operator

Arithmetic Operators

+	Additive operator (also used for String concatenation)
-	Subtraction operator
*	Multiplication operator
/	Division operator
%	Remainder operator

Unary Operators

+	Unary plus operator; indicates positive value (numbers are positive without this, however)
-	Unary minus operator; negates an expression
++	Increment operator; increments a value by 1
--	Decrement operator; decrements a value by 1
!	Logical complement operator; inverts the value of a boolean

Equality and Relational Operators

==	Equal to
!=	Not equal to
>	Greater than
>=	Greater than or equal to
<	Less than
<=	Less than or equal to

Conditional Operators

&&	Conditional-AND
||	Conditional-OR
?:	Ternary (shorthand for if-then-else statement)

Type Comparison Operator

instanceof	Compares an object to a specified type

Bitwise and Bit Shift Operators

~	Unary bitwise complement
<<	Signed left shift
>>	Signed right shift
>>>	Unsigned right shift
&	Bitwise AND
^	Bitwise exclusive OR
|	Bitwise inclusive OR

While and do-while loop

While loop continuously execute a block of code until the test condition is false.

```
    While(condition)
        {
            (Statement);
        }
```

Do-while loop is

```
Do
    {Statement}

    While(condition)
```

In do while loop condition is evaluate after the statement is execute
Only difference between while and do-while loop is in do-while loop condition is evaluate at the bottom of the loop so the statement will execute at least once.

Break Statement

break statement is use to stop a on going for, while and do-while loop