

## Master Core Java in 30 days

Day-3



Core Java

@6:30 PM Today

# Keywords

abstarct	continue	for	new	switch
assert	default	goto	package	synchronized
boolean	do	if	private	this
break	double	implements	protected	throw
byte	else	import	public	throws
case	enum	instanceof	return	transient
catch	extends	int	short	try
char	final	interface	static	void
class	finally	long	strictfp	volatile
const	float	native	super	while

# keywords

Java has 64 reserved keywords. We can divide them into the following categories.

### Primitive types and void:

boolean, byte, char, short, int, long, float, double, void

#### Modifiers:

public, private, protected, abstract, static, transient, final, volatile, synchronized, native

#### Declarations:

class, interface, implements, extends, enum, package, throws

#### Control Flow:

if,else,switch.case,break,default,for,while,do,continue,try,catch,finally,throw,return

## Miscellaneous:

this, new, super, import, instance of, null, true, false, strict fp, assert, goto, const

## Data Types

Data types specify the different sizes and values that can be stored in the variable.

There are two types of data types in Java:

Primitive data types: The primitive data types include boolean, char, byte, short, int, long, float and double.

Non-primitive data types: The non-primitive data types include class, interface and array



Data Type	Default size
boolean	1 bit
char	2 byte
byte	1 byte
short	2 byte
int	4 byte
long	8 byte
float	4 byte
double	8 byte

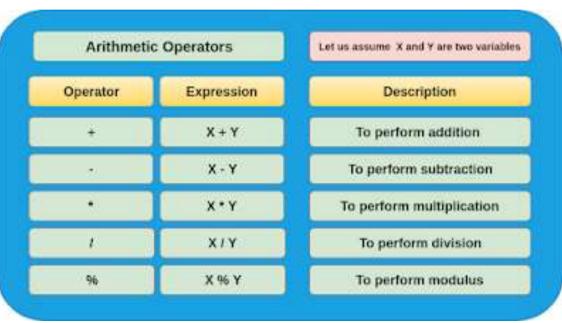
## operators

## is a symbol that is used to perform operations

- Unary Operator,
- 2. Arithmetic Operator,
- 3. Shift Operator,
- 4. Relational Operator,
- 5. Bitwise Operator,
- 6. Logical Operator,
- 7. Ternary Operator and
- 8. Assignment Operator.

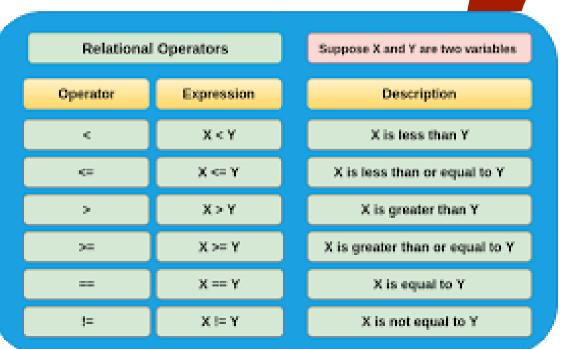
#### Arithmetic Operators

An arithmetic operator performs mathematical operations such as addition, subtraction, multiplication, division etc



#### Relational Operators

A relational operator checks the relationship between two operands. If the relation is true, it returns 1; if the relation is false, it returns value 0.

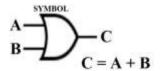


#### Logical Operators

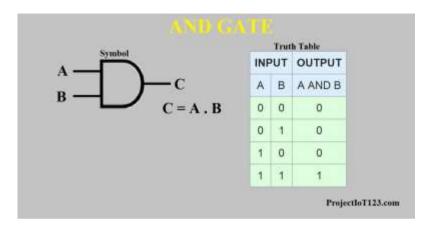
Logical operators are commonly used in decision making in programming. Used to perform logical operations

OPERATORS	OPERATORS NAME	
11	Logical OR operator	
&&	Logical AND operator	
!	Logical NOT operator	

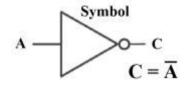
#### **OR** Gate



TRUTH TABLE			
INPUT		OUTPUT	
Α	В	A OR B	
0	0	0	
0	1	1	
1	0	1	
1	1	1	



#### **NOT Gate**



#### Truth Table

ATULIA TRIDIC		
INPUT	OUTPUT	
Α	NOT A	
0	1	
1	0	

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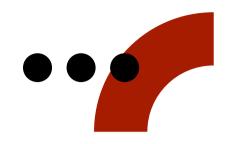
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#### Bitwise Operators

These operators are used to perform operations at bit-Level



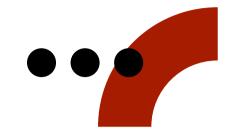
Operator	Name	Example	Result
&c	Bitwise AND	6 & 3	2
1 4	Bitwise OR	10   10	10
Λ	Bitwise XOR	2^2	0
ru-	Bitwise 1's complement	~9	-10
<<	Left-Shift	10<<2	40
>>	Right-Shift	10>>2	2



#### Assignment Operators

These operators are used to perform assignment operations
Used for short cut notations in java Language

	Assignmen	t Operators	Suppose X = 25, Y = 14
	Operator Expression		Description
	=	X = Y	Assigns Y value to X
	+=	X += Y	X = X + Y
	-=	X -= Y	X = X - Y
	*=	X *= Y	X = X * Y
	i=	X /= Y	X = X / Y
	%=	X %= Y	X = X % Y
- 1			



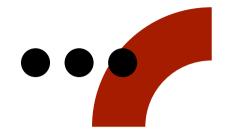
#### Unary Operators

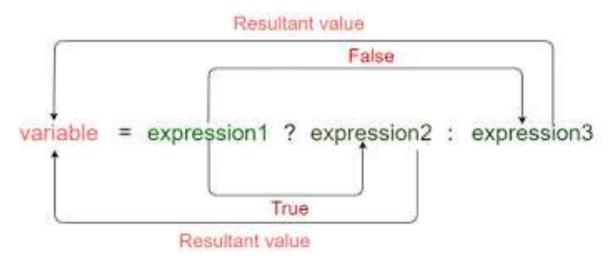
These operators used to perform increment (adding 1) or decrement operation (Subtracts 1) to a variable.

Name	Operator	Operation
Prefix Increment (Pre-increment)	++x	Increment then Return the value of x
Postfix Increment (Pre-increment)	X++	Return the value of x then Increment x
Prefix Decrement (Pre-decrement)	x	Decrement then Return the value of x
Postfix Decrement (Pre-decrement)	X	Return the value of x then  Decrement x

#### Conditional Operators

This operator is known as ternary operators If first exp evaluates true then second exp is true else it is going to evaluate third exp. Similar to if-else statement





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# Thank You

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