“चला तर, Coding शिकू आपल्या भाषेत!”

Marathi Coding Shala

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Statement/expressions

Aspect	Expression	Statement
Definition	Gives a value or result	Does an action
Purpose	Calculates or evaluates	Controls program flow
Example	x + y, a * (b - c)	int a = 5;, if, for

Statement/expressions

Example 1: Variable Declaration

```
int a;   // Statement (declares a variable)
```

Example 2: Assignment Statement

```
a = 10;  // Expression (assigns a value to a variable)
```

Relational operators(Binary Operators)

Used to compare values, resulting in a Boolean value (1 for true, 0 for false).

Operator	Description	Example
==	Equal to	a == b
!=	Not equal to	a != b
>	Greater than	a > b
<	Less than	a < b
>=	Greater than or equal to	a >= b
<=	Less than or equal to	a <= b

Relational operators

Operator	Description	Example	Output
==	Equal to	printf("%d", 5 == 5);	1
!=	Not equal to	printf("%d", 5 != 10);	1
>	Greater than	printf("%d", 15 > 10);	1
<	Less than	printf("%d", 7 < 12);	1
>=	Greater than or equal to	printf("%d", 75 >= 50);	1
<=	Less than or equal to	printf("%d", 16 <= 18);	1

Relational operators

❑ **Precedence and Associativity of Relational Operators** :

•<=, <, >, >=

❑ **Precedence and Associativity**:

•All relational operators have the same precedence.

•They follow left-to-right (L-to-R) associativity.

Operator Category	Operators
Unary	+ , -
1	% , * , /
2	+ , -
3	< , <= , > , >=
4	!= , ==
5	=

Relational operators

Relational operators

Logical Operators

1. Logical AND(&&)
2. Logical OR(||)

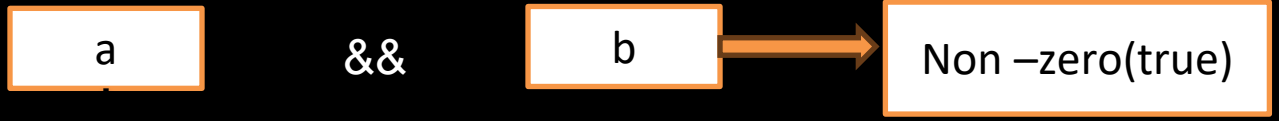
→ Binary Operator

3. Logical NOT(!)

→ Unary Operator

The result of logical operator is always either 0 or 1

1.Logical AND(&&)



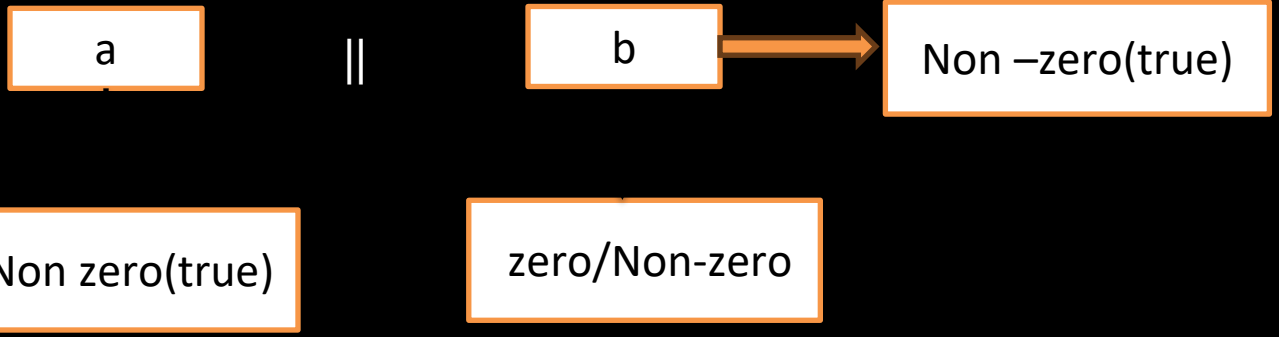
Non zero(true)

Non - zero(true)

1.Logical AND(&&)

a	b	a &&b	output
T	T	T	1
T	F	F	0
F	T	F	0
F	F	F	0

1.Logical OR(||) (CHOICE)



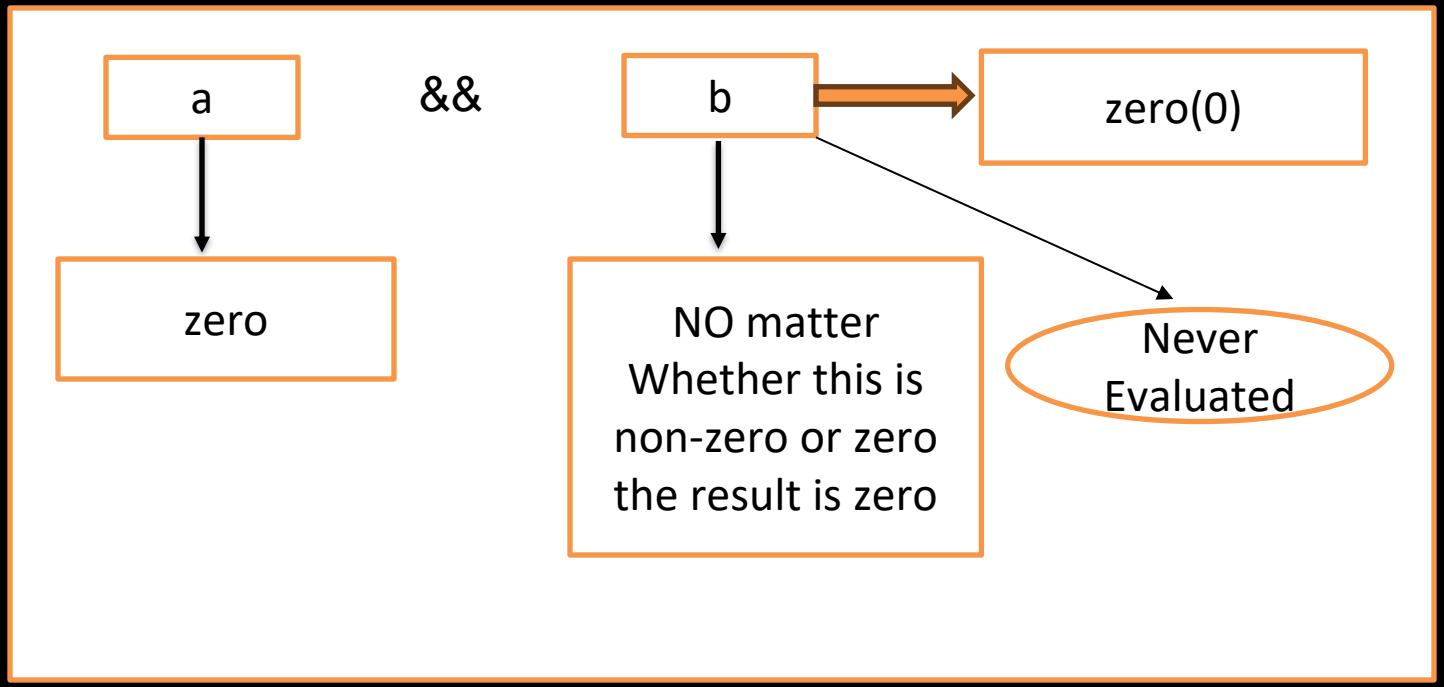
1.Logical OR(||)

a	b	a ||b	output
T	T	T	1
T	F	T	1
F	T	T	1
F	F	F	0

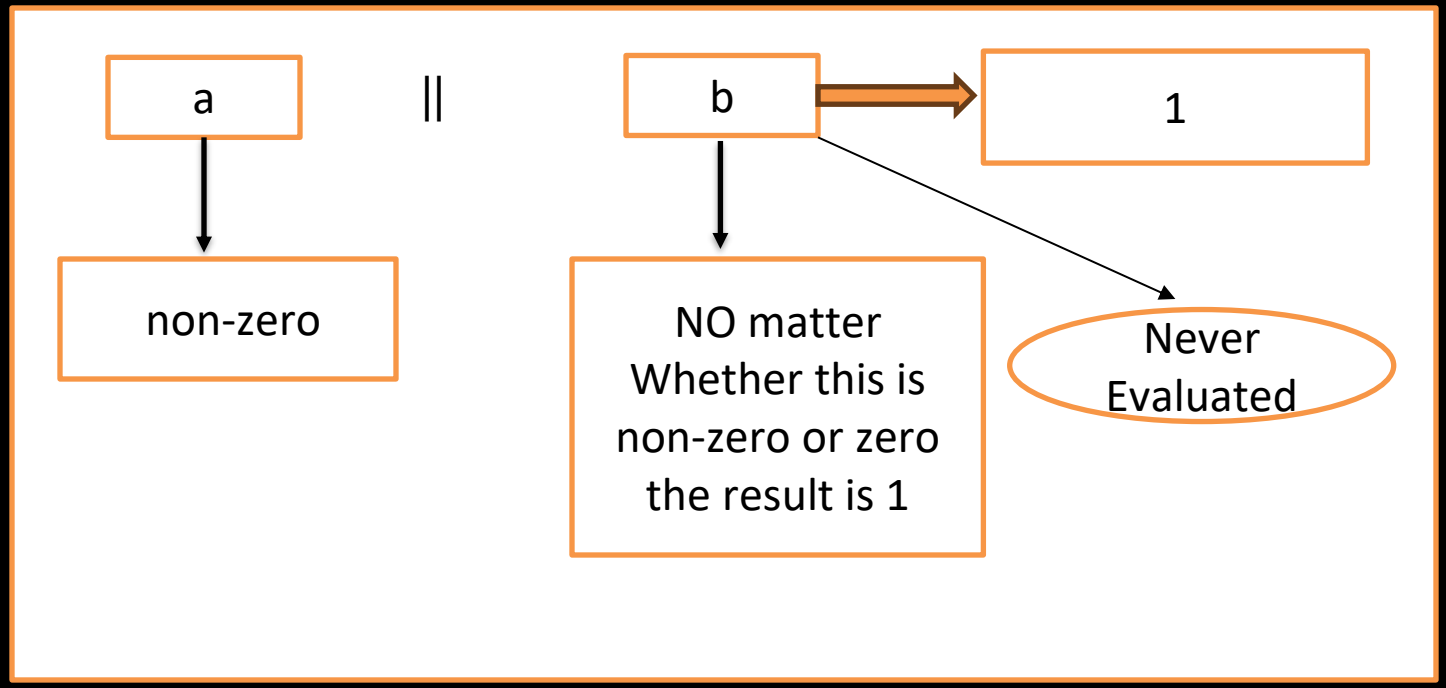
1.Logical NOT(!)

!a	output
!T	F
!F	T

Short –circuit evaluation



Short –circuit evaluation



Precedence Order of Operators

Precedence Order	Operators
Unary Operators	+, -, !
Arithmetic Operators	%, *, /, +, -
Comparison Operators	<, <=, >, >=
Equality Operators	==, !=
Logical AND Operator	&&
Logical OR Operator	`
Assignment Operator	=

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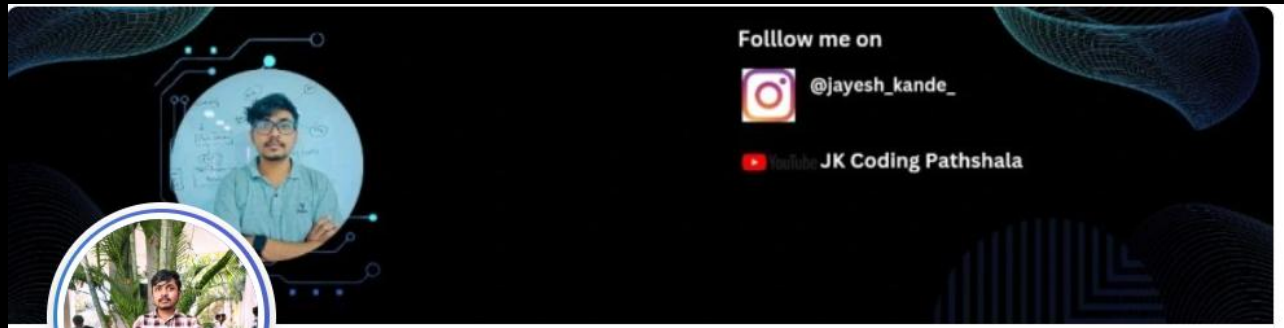

Jayesh Kande

Faculty at Coding Seekho (Offline + Online)|IT Engineering | Aspiring Web Developer | Java Enthusiast | Data Structures & Algorithms | Proficient in C, C++, Java, and MERN Stack | AI + Web Dev

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