C# Basic- Operators

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What are Operators in C#?

- used to perform operations on operands. For example, consider the expression 2 + 3 = 5, here 2 and 3 are operands, and + and = are called operators

1. Types of Operators in C#:

    1. Arithmetic Operators
    2. Relational Operators
    3. Logical Operators
    4. Bitwise Operators
    5. Assignment Operators
    6. Unary Operators or Ternary Operator or Conditional Operator

1. Arithmetic Operators

Arithmetic operators are used for performing mathematical calculations.

- Addition (+): Adds two operands.
- Subtraction (-): Subtracts the second operand from the first.
- Multiplication (*): Multiplies two operands.
- Division (/): Divides the first operand by the second.
- Modulus (%): Returns the remainder when the first operand is divided by the second.

2. Comparison Operators

Equal to (==): Checks if two operands are equal.Not equal to (!=): Checks if two operands are not equal.

Greater than (>): Checks if the first operand is greater than the second.

Less than (<): Checks if the first operand is less than the second.

Greater than or equal to (>=): Checks if the first operand is greater than or equal to the second.

Less than or equal to (<=): Checks if the first operand is less than or equal to the second.

3. Logical Operators

logical operators are used to combine conditional statements.

- Logical AND (&&): True if both operands are true.
- Logical OR (||): True if at least one of the operands is true.
- Logical NOT (!): Inverts the value of the operand.

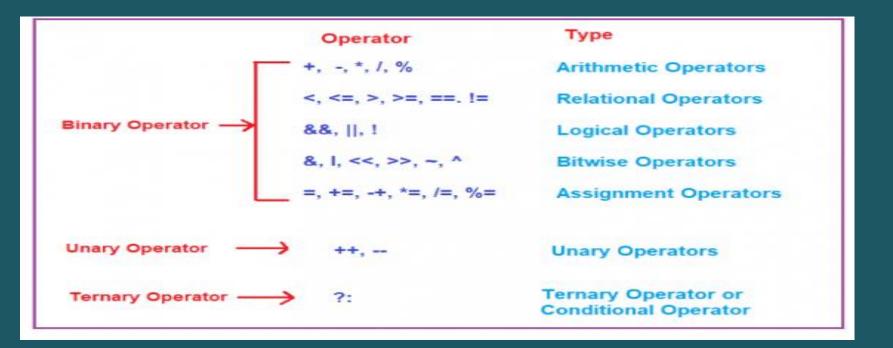# 4. Conditional Operator (Ternary Operator)

The conditional operator evaluates a Boolean expression and returns one of two values depending on whether the expression is true or false.

csharp

Operators

1. Unary Operator: The Operator that requires one operand (variable or value) to perform the operation is called Unary Operator.
2. Binary Operator: Then Operator that requires two operands (variables or values) to perform the operation is called Binary Operator.
3. Ternary Operator: The Operator that requires three operands (variables or values) to perform the operation is called Ternary Operator. The Ternary Operator is also called Conditional Operator.

Operators

Operator	Type
+, -, *, /, %	Arithmetic Operators
<, <=, >, >=, ==. !=	Relational Operators
&&, ||. !	Logical Operators
&, I, <<, >>, ~, ^	Bitwise Operators
=, +=, -+, *=, /=, %=	Assignment Operators

Binary Operator →

Unary Operator → ++, -- — Unary Operators

Ternary Operator → ?: — Ternary Operator or Conditional Operator

Thank You

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