**Operators and Expressions**

* The symbols which are used to perform logical and mathematical operations in a C program are called C operators.
* These C operators join individual constants and variables to form expressions.
* Operators, functions, constants and variables are combined together to form expressions.
* Consider the expression A + B \* 5. where, +, \* are operators, A, B  are variables, 5 is constant and A + B \* 5 is an expression.

**TYPES OF C OPERATORS:**

C language offers many types of operators. They are,

1. Arithmetic operators
2. Assignment operators
3. Relational operators
4. Logical operators
5. Bit wise operators
6. Conditional operators (ternary operators)
7. Increment/decrement operators
8. Special operators

**CONTINUE ON TYPES OF C OPERATORS:**

Click on each operator name below for detailed description and example programs.

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| **Types of Operators** | **Description** |
| [Arithmetic\_operators](http://fresh2refresh.com/c/c-operators-expressions/c-arithmetic-operators/) | These are used to perform mathematical calculations like addition, subtraction, multiplication, division and modulus |
| [Assignment\_operators](http://fresh2refresh.com/c/c-operators-expressions/c-assignment-operators/) | These are used to assign the values for the variables in C programs. |
| [Relational operators](http://fresh2refresh.com/c/c-operators-expressions/c-relational-operators/) | These operators are used to compare the value of two variables. |
| [Logical operators](http://fresh2refresh.com/c/c-operators-expressions/c-logical-operators/) | These operators are used to perform logical operations on the given two variables. |
| [Bit wise operators](http://fresh2refresh.com/c/c-operators-expressions/c-bit-wise-operators/) | These operators are used to perform bit operations on given two variables. |
| [Conditional (ternary) operators](http://fresh2refresh.com/c/c-operators-expressions/c-conditional-operators/) | Conditional operators return one value if condition is true and returns another value is condition is false. |
| [Increment/decrement operators](http://fresh2refresh.com/c/c-operators-expressions/c-increment-decrement-operators/) | These operators are used to either increase or decrease the value of the variable by one. |
| [Special operators](http://fresh2refresh.com/c/c-operators-expressions/c-special-operators/) | &, \*, sizeof( ) and ternary operators. |