

Learn C# Programming



C# is a simple & powerful object-oriented programming language developed by Microsoft. C# can be used to create various types of applications, such as web, windows, console applications, or other types of applications using Visual studio.

C# Fundamentals

- 1** C# Versions till date
- 2** Create Console Program in C#
- 3** Reserved Keywords in C#
- 4** Classes in C#
- 5** Namespaces in C#
- 6** Variables in C#
- 7** Create Variables using var
- 8** Data Types in C#
- 9** Working with Numbers in C#
- 10** Strings in C#
- 11** Working with Date and Time in C#
- 12** Struct type in C#
- 13** Enum type in C#
- 14** StringBuilder over String in C#
- 15** Anonymous types in C#
- 16** Dynamic type in C#?
- 17** Nullable types in C#
- 18** Value types & Reference types
- 19** Declare and implement interfaces in C#
- 20** Operators in C#
- 21** Partial Classes in C#
- 22** Static types in C#
- 23** Object Initializer Syntax
- 24** Covariance and Contravariance
- 25** Extension methods in C#

C# Conditions & Loops

C# Conditions & Loops

- 1 if, elseif, else Condition
- 2 Ternary Operator ?:
- 3 Switch Statement
- 4 For Loop
- 5 While Loop
- 6 do while Loop

C# Collections

- 1 Array
- 2 Multidimensional Array
- 3 Jagged Array
- 4 ArrayList
- 5 List
- 6 SortedList
- 7 Dictionary
- 8 Hashtable
- 9 Stack
- 10 Queue
- 11 Tuple
- 12 ValueTuple

C# Exception Handling, File Operation

- 1 Built-in Exception Classes
- 2 Exception Handling
- 3 throw keyword
- 4 Working with Custom Exceptions
- 5 Stream Input/Output
- 6 Working with File System
- 7 Access File using FileInfo Class

C# Events & Delegates

- 1 What is Delegates?
- 2 Func Delegate
- 3 Action Delegate
- 4 Predicate Delegate
- 5 Anonymous Methods

C# Articles

- 1 Static vs Singleton in C#

- 2** Difference between == and Equals() Method in C#
- 3** Asynchronous programming with async, await, Task in C#
- 4** Difference between static, readonly, and constant in C#
- 5** IndexOutOfRangeException in C#
- 6** Foreach Loop in C#
- 7** How to loop through an enum in C#?
- 8** NullReferenceException in C#
- 9** Generate Random Numbers in C#
- 10** Set Default Value to Property in C#
- 11** Variable Scopes in C#
- 12** When to use Struct over Class in C#
- 13** Difference between Two Dates in C#
- 14** Convert int to enum in C#
- 15** BigInteger Data Type in C#
- 16** Convert String to Enum in C#
- 17** Convert an Object to JSON in C#
- 18** Convert JSON String to Object in C#
- 19** The Main() Method in C#
- 20** How to Pass or Access Command-line Arguments in C#?
- 21** DateTime Formats in C#
- 22** How to convert date object to string in C#?
- 23** Searching in C# array
- 24** Compare strings in C#
- 25** How to count elements in C# array?
- 26** How to combine two arrays without duplicate values in C#?
- 27** Difference between String and string in C#.
- 28** How to get a comma separated string from an array in C#?
- 29** How to remove duplicate values from an array in C#?
- 30** How to sort an array in C#?
- 31** How to sort object array by specific property in C#?
- 32** ref Keyword in C#
- 33** Query geolocation & proxy data in .NET using IP2Location
- 34** Boxing and Unboxing in C#
- 35** out keyword in C#
- 36** How to convert string to int in C#?
- 37** Design Principle vs Design Pattern

- 38 How to calculate the code execution time in C#?
- 39 How to read file using StreamReader in C#?
- 40 Difference between delegates and events in C#
- 41 How to sort the generic SortedList in the descending order?
- 42 How to write file using StreamWriter in C#?
- 43 Difference between Array and ArrayList
- 44 Difference between Hashtable and Dictionary

C# Q & A

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