

C# Tutorial

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Welcome to C# Tutorial. In this tutorial, we will learn C# programming from basics like decision making, operators, variables, loops. And proceed with Object Oriented Programming Concepts, File handling operations, String Operations, Collections, Multi-threading, etc.

C# Basics

- [Create a C# Project with Visual Studio Code](#)
- [C# Basic Example](#)
- [C# Variables](#)
- [C# Constants](#)
- [C# Comments](#)

C# Console Operations

- [C# Write To Console](#)
- [C# Read From Console](#)
- [C# Command Line Arguments](#)

C# Decision Making

- [C# if statement](#)
- [C# switch statement](#)

C# Loops

- [C# while loop](#)
- [C# for loop](#)
- [C# foreach](#)
- [C# break](#)
- [C# continue](#)

C# Structures & Enumerations

- [C# Structure](#)
- [C# Enum](#)

C# Object Oriented Concepts

- [C# Class](#)
- [C# Inheritance](#)
- [C# Polymorphism](#)
- [C# Abstract](#)

- C# Interface
- C# Method Overloading

Solving some of the issues around C# Classes

- C# Error: Class does not contain a constructor that takes arguments

C# Exception Handling

- C# try-catch
- C# finally
- C# throw
- C# Custom Exception
- C# SystemException
- C# DivideByZeroException
- C# NullReferenceException
- C# InvalidCastException
- C# IOException
- C# FieldAccessException

C# String Operations

- C# String Length
- C# Substring
- C# Index of SubString
- C# Replace String
- C# Trim String
- C# String Contains Substring
- C# String StartsWith
- C# String EndsWith
- C# Join String Array
- C# ToString

C# File Operations

- C# Read Text File Line by Line
- C# Write to Text File
- C# Delete File
- C# Copy File
- C# Create Folder
- C# Create Folder Recursively
- C# Delete Folder
- C# Delete Folder Recursively
- C# Copy Folder

C# Collections

- C# Array

- C# List
- C# SortedList
- C# HashSet
- C# SortedSet
- C# Stack
- C# Queue
- C# LinkedList
- C# Dictionary
- C# SortedDictionary

C# Threading

- C# Multithreading

C# Math

- C# Math – Abs()
- C# Math – Acos()
- C# Math – Acosh()
- C# Math – Asin()
- C# Math – Asinh()
- C# Math – Atan()
- C# Math – Atan2()
- C# Math – Atanh()
- C# Math – BigMul()
- C# Math – BitDecrement()
- C# Math – BitIncrement()
- C# Math – Cbrt()
- C# Math – Ceiling()
- C# Math – Clamp()
- C# Math – CopySign()
- C# Math – Cos()
- C# Math – Cosh()
- C# Math – DivRem()
- C# Math – Exp()
- C# Math – Floor()
- C# Math – FusedMultiplyAdd()
- C# Math – IEEERemainder()
- C# Math – lLogB()
- C# Math – Log()
- C# Math – Log10()
- C# Math – Log2()
- C# Math – Max()
- C# Math – MaxMagnitude()
- C# Math – Min()
- C# Math – MinMagnitude()
- C# Math – Pow()

- C# Math – Round()
- C# Math – ScaleB()
- C# Math – Sign()
- C# Math – Sin()
- C# Math – Sinh()
- C# Math – Sqrt()
- C# Math – Tan()
- C# Math – Tanh()
- C# Math – Truncate()

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▸ C# Basic Example

▸ C# Comments

▸ C# Variables

▸ C# Constants

▸ C# if, if-else

▸ C# switch

▸ C# while loop

▸ C# for loop

▸ C# foreach

▸ C# break

▸ C# continue

▸ C# struct

▸ C# enum

▸ C# String

▸ C# Array

▸ C# Command Line Arguments

C# Console Operations

▸ C# Write to Console

▸ C# Read from Console

C# Object Oriented Programming Concepts

▸ C# Class & Constructors

▸ C# Encapsulation

▸ C# Polymorphism

‣ C# Method Overloading

‣ C# Interfaces

C# String Operations

‣ C# String Length

‣ C# Substring

C# File Operations

‣ C# Read Text File

‣ C# Write to File

‣ C# Delete File

‣ C# Copy File

C# Exception Handling

‣ C# try-catch

‣ C# finally

‣ C# throw

‣ C# Custom Exception

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C# Errors [Solved]

‣ C# Error: Class does not contain a constructor that takes arguments