

.NET Full Stack

Duration 3 month

.Net Framework

- .NET Framework
- CLR
- FCL

C#

- C# Tutorial
- What is C#
- C++ vs C#
- Java vs C#
- C# History
- C# Features
- C# Example
- C# Variables
- C# Data Types
- C# Operators
- C# Keywords

C# Control Statements

- C# if-else
- C# switch
- C# For Loop
- C# While Loop

- C# Do-While Loop
- C# Break
- C# Continue
- C# Goto
- C# Comments

C# Functions

- C# Function
- C# Call By Value
- C# Call By Reference
- C# Out Parameter

C# Arrays

- C# Arrays
- C# Array to Function
- C# Multidimensional Array
- C# Jagged Arrays
- C# Params
- C# Array class
- C# Command Line Args

C# Objects and Classes

- C# Object and Class

- C# Constructor
- C# Destructor
- C# this
- C# static

- C# static class
- C# static constructor
- C# Structs
- C# Enum

C# Properties

- C# Properties

C# Inheritance

- C# Inheritance
- C# Aggregation

C# Polymorphism

- C# Member Overloading
- C# Method Overriding
- C# Base
- C# Polymorphism
- C# Sealed

C# Abstraction

- C# Abstract
- C# Interface

C# Namespace

- C# Namespaces
- C# Access Modifiers

- C# Encapsulation

C# Strings

- C# Strings

C# String Functions

- String Clone()
- String Compare()
- String CompareOrdinal()
- String CompareTo()
- String Concat()
- String Contains()
- String Copy()
- String CopyTo()
- String EndsWith()
- String Equals()
- String Format()
- String GetEnumerator()
- String GetHashCode()
- String GetType()
- String GetTypeCode()
- String IndexOf()
- String Insert()
- String Intern()
- String IsInterned()
- String IsNormalized()
- String Normalize()
- String IsNullOrEmpty()
- IsNullOrWhiteSpace()
- String Join()

- String LastIndexOf()
- String LastIndexOfAny()
- String PadLeft()
- String PadRight()
- String Remove()
- String Replace()
- String Split()
- String StartsWith()
- String SubString()
- String ToCharArray()
- String ToLower()
- String ToLowerInvariant()
- String ToString()
- String ToUpper()
- String ToUpperInvariant()
- String Trim()
- String TrimEnd()
- String TrimStart()

C# Exceptions

- C# Exception Handling
- C# try/catch
- C# finally
- C# Custom Exception
- C# checked unchecked
- C# SystemException

C# File I/O

- C# FileStream

- C# StreamWriter
- C# StreamReader
- C# TextWriter
- C# TextReader
- C# BinaryWriter
- C# BinaryReader
- C# StringWriter
- C# StringReader
- C# FileInfo
- C# DirectoryInfo
- C# Serialization
- C# Deserialization
- C# System.IO

C# Collections

- C# Collections
- C# List<T>
- C# HashSet<T>
- C# SortedSet<T>
- C# Stack<T>
- C# Queue<T>
- C# LinkedList<T>
- C# Dictionary<K,V>
- C# SortedDictionary<K,V>
- C# SortedList<K,V>

C# Generics

- C# Generics

C# Delegates

- C# Delegates

C# Reflection

- C# Reflection

C# Anonymous Functions

- Anonymous Function

C# Multithreading

- C# Multithreading
- C# Thread Life Cycle
- C# Thread class
- C# Main Thread
- C# Thread Example
- C# Thread Sleep
- C# Thread Abort
- C# Thread Join
- C# Thread Name
- C# ThreadPriority

C# Synchronization

- C# Synchronization

C# New Features

- C# New Features (40+)

C# 2.0

- Partial types
- Iterators
- Nullable types

- Delegate Covariance
- Delegate inference
- Static classes
- Method group conversions (delegates)

C# 3.0

- Anonymous types
- Extension methods
- Query expression
- Partial method
- Implicitly typed local variables
- Object and collection initializers
- Auto-Implemented properties
- Lambda expression
- Expression trees

C# 4.0

- Dynamic binding
- Named and optional arguments
- Generic co and contravariance
- Embedded interop types ("NoPIA")

C# 5.0

- Asynchronous methods
- Caller info attributes

C# 6.0

- Using static directive

- Exception filters
- Await in catch/finally blocks
- Auto property initializers
- Default values for getter-only properties
- Expression-bodied members
- Null propagator
- String interpolation
- nameof operator
- Dictionary initializer
- Compiler-as-a-service (Roslyn)

C# 7.0

- Pattern matching
- Tuples
- Deconstruction
- Local functions
- Digit separator
- Binary literals
- Ref returns and locals
- Expression bodied constructors and finalizers
- Expression bodied getters and setters
- Out variables
- Generalized async return types

C# 7.1

- Async main
- Default expressions

C# Programs List

- C# Programs
- Fibonacci Series
- Prime Number
- Palindrome Number
- Factorial
- Armstrong Number
- Sum of digits
- Reverse Number
- Swap Number
- Decimal to Binary
- Number in Characters
- Alphabet Triangle
- Number Triangle
- Fibonacci Triangle

C# Interview Questions

- C# Interview Questions

ADO.NET Tutorial

- ADO.NET Tutorial
- ADO.NET Introduction
- ADO.NET Data Providers
- ADO.NET SQL Server
- ADO.NET Connection
- ADO.NET Command
- ADO.NET DataReader
- ADO.NET DataSet
- ADO.NET DataAdapter

- ADO.NET DataTables
- ADO.NET WF Example
- ADO.NET MVC Example

ADO.NET Interview Questions

- ADO.NET Interview Questions

ASP.NET Tutorial

- ASP .NET Tutorial
- ASP .NET Introduction
- ASP.NET Life Cycle

ASP.NET Web Forms

- ASP.NET WF Introduction
- ASP.NET WF Features
- ASP.NET WF Project
- ASP.NET WF Example
- ASP.NET Server Controls
- ASP.NET Label
- ASP.NET TextBox
- ASP.NET Button
- ASP.NET HyperLink
- ASP.NET RadioButton
- ASP.NET Calendar
- ASP.NET CheckBox
- ASP.NET LinkButton
- ASP.NET FileUpload
- Multiple FileUpload
- ASP.NET Download File
- ASP.NET Cookie

- ASP.NET Session
- ASP.NET DropDownList
- ASP.NET DataList
- ASP.NET DataGrid
- WF User Registration
- WF Events Handling

- WF Authentication
- WF Model Binding
- HTML Server Controls

ASP.NET Validation

- CompareValidator
- RangeValidator
- RegularExpressionValidator
- RequiredFieldValidator
- ValidationSummary

ASP.NET MVC

- ASP.NET MVC
- MVC Project
- MVC Controller
- MVC Actions
- MVC Action Selectors
- MVC Action Filters
- MVC Model
- MVC Model Binding
- MVC View
- MVC Validation
- MVC Entity Framework

- MVC Authentication
- MVC Bootstrap
- MVC Routing
- MVC Scaffolding
- MVC ViewBag

ASP.NET Razor

- ASP.NET Razor
- Razor Code Expressions
- Razor Code Blocks
- Razor Control Structures
- Razor HTML Helpers
- Razor Partial Views