CE103 Algorithms and Programming I

C# Functional Console Programming

Author: Asst. Prof. Dr. Uğur CORUH

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# Week-7

#### Fall Semester, 2021-2022

Download [DOC](ce103-week-7-csharp.tr.md_doc.pdf), [SLIDE](ce103-week-7-csharp.tr.md_slide.pdf), [PPTX](ce103-week-7-csharp.tr.md_slide.pptx)

# C# Functional Console Programming

We will follow the following topics

* [Learn C# Programming](https://www.programiz.com/csharp-programming)

Books

[Free C# Programming Book](https://goalkicker.com/CSharpBook/)

[free-programming-books/free-programming-books-langs.md at master · EbookFoundation/free-programming-books · GitHub](https://github.com/EbookFoundation/free-programming-books/blob/master/books/free-programming-books-langs.md#c-sharp)

## Extras

[Creating a Simple Dynamic-Link Library - Win32 apps | Microsoft Docs](https://docs.microsoft.com/en-us/windows/win32/dlls/creating-a-simple-dynamic-link-library)

[Dynamic-Link Library Creation - Win32 apps | Microsoft Docs](https://docs.microsoft.com/en-us/windows/win32/dlls/dynamic-link-library-creation)

[Exporting from a DLL | Microsoft Docs](https://docs.microsoft.com/en-us/cpp/build/exporting-from-a-dll?view=msvc-170&viewFallbackFrom=vs-2019)

[Exporting from a DLL Using DEF Files | Microsoft Docs](https://docs.microsoft.com/en-us/cpp/build/exporting-from-a-dll-using-def-files?view=msvc-170)

[How to create a DLL library in C and then use it with C# - CodeProject](https://www.codeproject.com/Articles/9826/How-to-create-a-DLL-library-in-C-and-then-use-it-w)

[DLL - How to Write](https://www.tutorialspoint.com/dll/dll_writing.htm)

[DLL - Dynamic Link Library in C - Steps to Create and Use](https://www.interviewsansar.com/dll-dynamic-link-library-in-c/)

https://www.codementor.io/@a\_hathon/building-and-using-dlls-in-c-d7rrd4caz

[DLL Injection - free code corner](https://sites.google.com/site/freecodecorner/technologies/process-info/dll-injection)

[GitHub - dennisbabkin/InjectAll: Tutorial that demonstrates how to code a Windows driver to inject a custom DLL into all running processes. I coded it from start to finish using C++ and x86/x64 Assembly language in Microsoft Visual Studio. The solution includes a kernel driver project, a DLL project and a C++ test console project.](https://github.com/dennisbabkin/InjectAll)

[Coding Windows Kernel Driver - InjectAll - Making the Visual Studio solution for DLL injection into all running processes.](https://dennisbabkin.com/blog/?i=AAA10800)

## Others

[std::dec, std::hex, std::oct - cppreference.com](https://en.cppreference.com/w/cpp/io/manip/hex)

[std::setbase - cppreference.com](https://en.cppreference.com/w/cpp/io/manip/setbase)

[C++ Tutorial: Multi-Threaded Programming - Thread for Win32 - 2020](https://www.bogotobogo.com/cplusplus/multithreading_win32A.php)

1. Csharp Programming
2. Introduction
3. C# Hello World
4. C# Keywords & Identifiers
5. C# Variables
6. C# Operators
7. C# Basic I/O
8. C# Expressions & Statements
9. C# Comments
10. Flow Control
11. C# if..else
12. C# for loop
13. C# while loop
14. C# foreach loop
15. C# switch statement
16. C# ternary operator
17. Exception Handling
18. Other Topics
19. C# Bitwise Operators
20. C# Preprocessor Directives
21. C# Namespaces
22. C# Partial Class & Method