CE103 Algorithms and Programming I

C# Functional Console Programming

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Contents

1	CE103 Algorithms and Programming I	1
2	Week-7	1
3	C# Functional Console Programming 3.1 Extras	1 2 2
\mathbf{L}	ist of Figures	
\mathbf{L}	ist of Tables	
1	CE103 Algorithms and Programming I	
2	Week-7	
2.	0.0.1 Fall Semester, 2021-2022 Download DOC ¹ , SLIDE ² , PPTX ³	
3	C# Functional Console Programming	
W	e will follow the following topics	
	• Learn C# Programming ⁴	
В	ooks	
Fr	ee C# Programming Book ⁵	
	ee-programming-books/free-programming-books-langs.md at master · Ebook Foundation/free-programming-books · Git Hub 6	ning
		.md

3.1 Extras

Creating a Simple Dynamic-Link Library - Win32 apps | Microsoft Docs⁷

Dynamic-Link Library Creation - Win32 apps | Microsoft Docs⁸

Exporting from a DLL | Microsoft Docs⁹

Exporting from a DLL Using DEF Files | Microsoft Docs¹⁰

How to create a DLL library in C and then use it with C# - CodeProject¹¹

DLL - How to Write¹²

DLL - Dynamic Link Library in C - Steps to Create and Use¹³

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

DLL Injection - free code corner¹⁴

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.¹⁵

Coding Windows Kernel Driver - Inject All - Making the Visual Studio solution for DLL injection into all running processes. 16

3.2 Others

std::dec, std::hex, std::oct - cppreference.com¹⁷

std::setbase - cppreference.com¹⁸

C++ Tutorial: Multi-Threaded Programming - Thread for Win32 - 2020^{19}

- 1. Csharp Programming
- a. Introduction
- b. C# Hello World
- ii. C# Keywords & Identifiers
- iii. C# Variables
- iv. C# Operators
- v. C# Basic I/O
- vi. C# Expressions & Statements
- vii. C# Comments
- b. Flow Control
- c. C# if..else

⁷https://docs.microsoft.com/en-us/windows/win32/dlls/creating-a-simple-dynamic-link-library

 $^{^{8}} https://docs.microsoft.com/en-us/windows/win32/dlls/dynamic-link-library-creation$

⁹https://docs.microsoft.com/en-us/cpp/build/exporting-from-a-dll?view=msvc-170&viewFallbackFrom=vs-2019

 $^{^{10} \}rm https://docs.microsoft.com/en-us/cpp/build/exporting-from-a-dll-using-def-files?view=msvc-170$

 $^{^{11} \}rm https://www.codeproject.com/Articles/9826/How-to-create-a-DLL-library-in-C-and-then-use-it-way and the complex of the control of th$

¹²https://www.tutorialspoint.com/dll/dll_writing.htm

¹³https://www.interviewsansar.com/dll-dynamic-link-library-in-c/

 $^{^{14}} https://sites.google.com/site/freecodecorner/technologies/process-info/dll-injection$

¹⁵https://github.com/dennisbabkin/InjectAll

¹⁶https://dennisbabkin.com/blog/?i=AAA10800

¹⁷https://en.cppreference.com/w/cpp/io/manip/hex

¹⁸https://en.cppreference.com/w/cpp/io/manip/setbase

¹⁹https://www.bogotobogo.com/cplusplus/multithreading_win32A.php

- ii. C# for loop
- iii. C# while loop
- iv. C# for each loop
- v. C# switch statement
- vi. C# ternary operator
- vii. Exception Handling
- viii. Other Topics
- ix. C# Bitwise Operators
- x. C# Preprocessor Directives
- xi. C# Namespaces
- xii. C# Partial Class & Method