CE103 Algorithms and Programming I

C++ Functional Console Programming

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2 Week-6

2.0.0.1 Fall Semester, 2021-2022   Download DOC[1], SLIDE[2], PPTX[3]

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3 C++ Functional Console Programming

3.1 Books and Resources

free-programming-books/free-programming-books-langs.md at master · EbookFoundation/free-programming-books · GitHub[4]

4 C++ Functional Console Programming

We will follow the following topics

- Learn C++ Programming[5]

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[1] ce103-week-6-cpp.tr.md__doc.pdf

[2] ce103-week-6-cpp.tr.md__slide.pdf

[3] ce103-week-6-cpp.tr.md__slide.pptx

[4] https://github.com/EbookFoundation/free-programming-books/blob/master/books/free-programming-books-langs.md#c-1

[5] https://www.programiz.com/cpp-programming

- Introduction to C++ | C Plus Plus Programming Language Tutorials[6]
- The C and C++ programming tutorials, hands-on approach with program examples, code samples and tons of output images using Visual C++, C++ Builder, Linux gcc and g++ compilers and IDE[7]

1. Cpp Programming

a. C++ Introduction

b. C++ Variables and Literals

ii. C++ Data Types

iii. C++ Basic I/O

iv. C++ Type Conversion

1. C++ String to Int and Vice-Versa

2. C++ String to Float, Double and Vice-Versa

v. C++ Operators

vi. C++ Comments

b. C++ Flow Control

c. C++ if..else

ii. C++ for loop

iii. C++ do..while loop

iv. C++ break statement

v. C++ continue statement

vi. C++ switch statement

vii. C++ goto statement

viii. C++ Functions

ix. C++ Functions

x. C++ Function Types

xi. C++ Function Overloading

xii. C++ Default Argument

xiii. C++ Storage Class

xiv. C++ Recursion

xv. C++ Return Reference

xvi. C++ Arrays & String

xvii. C++ Arrays

xviii. Multidimensional Arrays

xix. C++ Function and Array

xx. C++ String

e. C++ Structures

f. C++ Structures

ii. Structure and Function

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[6]http://www.btechsmartclass.com/cpp-programming/index.php
[7]https://www.tenouk.com/cncplusplustutorials.html

   iii. C++ Pointers to Structure

   iv. C++ Enumeration

    f. C++ Object & Class

    g. C++ Objects and Class

   ii. C++ Constructors

   iii. C++ Objects & Function

   iv. C++ Operator Overloading

    g. C++ Pointers

    h. C++ Pointer

   ii. C++ Pointers and Arrays

   iii. C++ Pointers and Functions

   iv. C++ Memory Management

    h. C++ Inheritance

    i. C++ Inheritance

   ii. Inheritance Access Control

   iii. C++ Function Overriding

   iv. Multiple & Multilevel Inheritance

    v. C++ Friend Function

   vi. C++ Virtual Function

C++ Templates