

CE103 Algorithms and Programming I

C++ Functional Console Programming

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1 CE103 Algorithms and Programming I

2 Week-6

2.0.0.1 Fall Semester, 2021-2022 Download DOC¹, SLIDE², PPTX³

3 C++ Functional Console Programming

3.1 Books and Resources

[free-programming-books/free-programming-books-langs.md](#) at master · EbookFoundation/free-programming-books · GitHub⁴

4 C++ Functional Console Programming

We will follow the following topics

- Learn C++ Programming⁵

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 Tutorials⁶
- 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 IDE⁷

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

⁶<http://www.btechsmartclass.com/cpp-programming/index.php>

⁷<https://www.tenouk.com/cplusplusutorials.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