



Programming

Duration - 2 Months

C++ Tutorial

- C++ Tutorial
- What is C++
- C vs C++
- C++ History
- C++ Features
- C++ Installation
- C++ Program
- C++ cout, cin, endl
- C++ Variable
- C++ Data types
- C++ Keywords
- C++ Operators

C++ Control Statement

- C++ if-else
- C++ switch
- C++ For Loop
- C++ While Loop
- C++ Do-While Loop
- C++ Break Statement
- C++ Continue Statement
- C++ Goto Statement
- C++ Comments

C++ Functions

- C++ Functions
- Call by value & reference
- C++ Recursion
- C++ Storage Classes

C++ Arrays

- C++ Arrays
- C++ Array to Function
- Multidimensional Arrays

C++ Pointers

- C++ Pointers
- Sizeof() operator in C++
- C++ Array of Pointers
- C++ Void Pointer
- C++ References
- References vs Pointer
- Function Pointer in C++
- C++ Memory Management
- Malloc() vs new in C++
- Free vs delete in C++



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C++ Object Class

- C++ OOPs Concepts
- C++ Object Class
- C++ Constructor
- C++ Copy Constructor
- C++ Destructor
- C++ this Pointer
- C++ static
- C++ Structs
- C++ Enumeration
- C++ Friend Function
- C++ Math Function

C++ Inheritance

- C++ Inheritance
- C++ Aggregation

C++ Polymorphism

- C++ Polymorphism
- C++ Overloading
- C++ Overriding
- C++ Virtual Function

C++ Abstraction

- C++ Interfaces
- C++ Data Abstraction

C++ Namespaces

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C++ Templates

- C++ Templates

C++ Strings

- C++ Strings

C++ Exceptions

- C++ Exception Handling
- C++ try/catch
- C++ User-Defined

C++ File & Stream

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