



# C++ from scratch..

Day 1 : Intro to C++, Why C++ , features , first program in C++, interesting facts about C++

# Introduction

- C++ is a general-purpose programming language and is widely used nowadays for competitive programming. It has imperative, object-oriented, and generic programming features. C++ runs on lots of platforms like Windows, Linux, Unix, Mac, etc. It can be used to develop operating systems, browsers, games, and so on.
- This makes C++ powerful as well as flexible. For this course, you will be provided with the in-built compiler of Coding Ninjas. However, if you want to run programs and practice them on your local desktop, various compilers like Code blocks, VS Code, Dev C++, Atom, and many more exist. You may choose one for yourself.

# Features of C++

- C++ provides a lot of features that are given below.
- Simple
- Portability
- Powerful and Fast
- Rich Library
- Platform Dependent
- Mid-level programming language
- Structured programming language
- Object-Oriented
- Case Sensitive
- Compiler Based
- Syntax based language
- Pointers
- Dynamic Memory Management

# C vs C++

C follows the <b>procedural style programming</b> .	C++ is multi-paradigm. It supports both <b>procedural and object oriented</b> .
Data is less secured in C.	In C++, you can use modifiers for class members to make it inaccessible for outside users.
C does not support function overloading.	C++ supports function overloading.
C follows the <b>top-down approach</b> .	C++ follows the <b>bottom-up approach</b> .
C programs are divided into <b>procedures and modules</b>	C++ programs are divided into <b>functions and classes</b> .

# IDE's

Dev CPP

VS CODE

CODEBLOCKS

TURBO C++