



# C++ Language

## Course Content

# C + + Language

- C++ allows procedural programming for intensive functions of CPU and to provide control over hardware.
- It is very fast because of which it is widely used in developing different games or in gaming engines.

## Prerequisites to Learn C + + Language

- Anyone can Learn
- C Programming is recommended for easy understanding



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## Introduction

- ✓ Introduction to C++
- ✓ C vs C++
- ✓ History
- ✓ Features
- ✓ Installation
- ✓ First C++ Program

## DataTypes, Variable & Keyword

- ✓ DataTypes in C++
- ✓ Variable in C++
- ✓ Keyword in C++

## Basic Input/Output

- ✓ `cin`/`cout`/`endl`
- ✓ comments in c++

## Operators in C++

### What is Operator?

#### Types of operator

- ✓ Arithmetic Operators
- ✓ Increment Decrement Operators
- ✓ Relational Operator
- ✓ Logical Operators

#### Variable Scope

## Conditional Statement

- ✓ if Statement
- ✓ if else Statement
- ✓ else if Statement
- ✓ Nested if...else Statement
- ✓ switch Statement

## Loopings Structure

- ✓ while loop
- ✓ do while loop
- ✓ for loop
- ✓ Nested Loop

## Loop Control Statements

- ✓ Break Statement
- ✓ Continue Statement
- ✓ Goto Statement

## Array

- ✓ What is Array?
- ✓ How to declare array?
- ✓ Types of Array
- ✓ String in C++

## Function

- ✓ What is function?
- ✓ Types of functions

## Object Oriented Concepts

### Basics of OOPs

#### Class & Objects

- ✓ What is function?
- ✓ Types of functions
- ✓ Variable scope
- ✓ Call by value
- ✓ Call by reference

## Constructor & Destructor

#### What is constructor?

- ✓ How to declare constructor?
- ✓ Types of constructor

## This Keyword & Static keyword

- ✓
- ✓
- ✓
- ✓
- ✓

## Inheritance

#### What is Inheritance ?

#### Modes Of Inheritance

- ✓ Public Mode
- ✓ Protected Mode
- ✓ Private Mode

#### Types of Inheritance





## Polymorphism

- ✓ What is Polymorphism ?
- ✓ Types of Polymorphism
- ✓ Function Overloading
- ✓ Virtual Functions

## Abstraction & Encapsulation

- ✓ What is Abstraction?
- ✓ Pure virtual functions
- ✓ Encapsulation

## Exception

- ✓ What is Exception ?
- ✓ try/catch keyword
- ✓ finally keyword
- ✓ User definedException

## Namespace & String Functions

- ✓ Arithmetic Operators
- ✓ Increment Decrement Operators
- ✓ Relational Operator
- ✓ Logical Operators

## Template

### What is Template?

### Types of Template

- ✓ Function Templates
- ✓ Class Templates

## Advance Functions

- ✓ Friend Functions
- ✓ Operator Overloading

## Command Line Argument

- ✓
- ✓
- ✓
- ✓
- ✓







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