



C++ Programming

Introduction of C++

- Introduction
- Difference between Structure Programming and OOPs Programming

Tokens Expression and control structure

- Introduction of Token Keywords , Identifiers, Constants
- Basic data type
- User define data type
- Declaration of variable

Object Oriented Programming (OOPs)

- Basic Concept of OOPs
- Object
- Class
- Abstraction
- Encapsulation
- Inheritance
- Polymorphism
- Overloading

Function in C++

- Introduction of Main() function
- Function Proto Type
- Inline Function
- Function Overloading
- Friend function
- Virtual Function



Class and Object

- Introduction
- Declaring a Class
- Private Member Function
- Static Member Function
- Array within Class

Constructor and Destructor

- Introduction Constructor
- Default Constructor
- Parameterized Constructor
- Copy Constructor
- Destructor

Operator Overloading

- Introduction
- Overloading Unary operator
- Overloading Binary using friend

Inheritance

- Introduction
- Base class and Derived Class
- Single inheritance
- Do.....While Loop
- Multiple Inheritance
- Multilevel Inheritance
- Hierarchical Inheritance
- Hybrid Inheritance
- Virtual Base Class
- Abstract Class

Pointer, Virtual Function and Polymorphism

- Introduction of Pointer
- Virtual function
- Polymorphism

Working with Files

- Introduction



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- Class for File Stream
- Opening and closing a file
- Sequential input and output operation

Template

- Introduction Class template
- Classes template with multiple parameters
- Function template



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