



C++

➤ Chapter 1. Perspective

- The software Crisis
- Design Techniques
- Large Software System
- Roots of Objects Oriented Programming
- C++ and Objects Oriented Programming
- Why C++
- Feature of C++
- Post and Cons of C++

➤ Chapter 2. The Language of Objects Orientation

- What is an Object?
- What is a Class?
- Encapsulation
- Data Heading
- The Public Interfaces
- Relationship among Classes
- Inheritance
- Polymorphism
- Objects Oriented Design

➤ Chapters 3. C vs C++

- Comments
- Simple Output
- Simple input

- Structure Members
- Operators new and Delete
- The bool Data Type
- The string Data Type

➤ Chapter 4. Fundamentals of classes

- Data Type
- Using Defined Data Type
- Using the Class Concept
- Defined a Class
- Public and Private Operator
- Constructor
- Member Initializations Lists
- Destructors
- Array of Object
- Pointers
- The This Pointers
- Passing Objects to Function
- Static Class Members

➤ Chapter 5. Operator Overloading

- Introduction
- Rules for Operator Overloading



- Rational for Operator Overloading
- Overloading Member Function
- Overloading Non-Member Function
- The copy Constructor
- The Assignment Operator
- Overloading
- Overloading Increment and Decrement
- Operators
- **Chapter 6. Composition of Classes**
 - Relationships
 - Composition of Classes
 - The point Class
 - The Line class
 - Member Initialization Lists
 - The Copy Constructors under composition
 - Operator = under composition
- **Chapter 7. Inheritance**
 - Introduction
 - Public Base Classes
 - The Protected Access Level
 - Compile – Time vs Run – Time Binding
 - Virtual Function
 - Abstract Base Classes
 - An Extended Inheritance Example
- **Chapter 8. I/O in C++**
 - The iostream Library
 - Predefined streams
 - Overloading Operator<<
 - Manipulators
 - Streams state
 - Formatted I/O
 - Disk Files
 - Reading and Writing Objects

IBM
HCL

ORACLE
Infosys

TATA
CONSULTANCY SERVICES
ORACLE
Java 7

SOFTCRAYONS TECH SOLUTION (OPC) PVT. LTD.

Plot No. - 693, Sector 14-A, Vasundhara, GZB-201010

Telephone: 0120-4952626, 4262233

Mobile: (+91)-9136366665 , 8545012345

Email: info@softcrayons.com

www.softcrayons.com