

C & C++ Programming Language

Programming in 'C'	
CHAPTER 1	INTRODUCTION OF PROGRAMMING LANGUAGES
<ul style="list-style-type: none">• Types of Languages• Evolution of 'C' Language• Structure of a 'C' Program• 'C' Program development life cycle• Executing and Debugging a 'C' Program	
CHAPTER 2	'C' TOKENS
<ul style="list-style-type: none">• Keywords and Identifiers• Operators• Constants• Variables• Data Types• Precedence of Operators• Scope and Lifetime of Variables	
CHAPTER 3	CONTROL STATEMENT AND EXPRESSIONS
<ul style="list-style-type: none">• Decision Making using if statement• Types of if ...else block• Switch case Block• Arithmetic Expressions• Evaluation of Expressions• GOTO statement	
CHAPTER 4	LOOPING
<ul style="list-style-type: none">• Concept of Loop• For loop• While loop• Do while loop• Jumping in Loop• break and continue statement	

CHAPTER 5	ARRAYS AND STRINGS
	<ul style="list-style-type: none">• Introduction of Array• One - D Array• Two - D Array• Multidimensional Array• Dynamic Arrays• Implementing String Variables• String handling Functions
CHAPTER 6	FUNCTIONS
	<ul style="list-style-type: none">• Concept of Function• User defined Function• System Defined Function• Types of parameter passing in function
CHAPTER 7	POINTERS
	<ul style="list-style-type: none">• Need of Pointers• Types of Pointers• Pointer Expression• Arrays of Pointers• Pointers and Functions
CHAPTER 8	STRUCTURE AND UNIONS
	<ul style="list-style-type: none">• Need of Structure• Implementing Structure Variable Arrays of Structure• Structure within Structure• Introduction of Unions• Difference between Structure and Unions
CHAPTER 9	FILE HANDLING USING 'C'
	<ul style="list-style-type: none">• Opening and Closing File• Input / Output operations on File Random Access to Files• Command Line Arguments
CHAPTER 10	DYNAMIC MEMORY ALLOCATION
	<ul style="list-style-type: none">• Concept of Dynamic Allocation Implementing Malloc and Calloc Functions• Releasing the free space

CHAPTER 11	STORAGE CLASSES AND PRE-PROCESSOR
	<ul style="list-style-type: none">• Introduction of Storage Class• Types of Storage Classes Introduction of Pre-processor Macro Substitution• File Inclusion

Programming in ' C++ '	
CHAPTER 1	INTRODUCTION TO OBJECT ORIENTED PROGRAMMING
	<ul style="list-style-type: none">• Concept of OOP• Features of OOP• Introduction of 'C++'• Structure of 'C++' program• Executing and Debugging a 'C++' Program
CHAPTER 2	'C++' TOKENS AND TYPE CASTING
	<ul style="list-style-type: none">• Keywords and Identifiers• Operators• Constants• Variables• Data Types• Precedence of Operators• Scope and Lifetime of Variables
CHAPTER 3	CLASSES & OBJECTS
	<ul style="list-style-type: none">• Classes & Object Specifier• Defining data members and member functions• Array of objects• Managing console I/O• 'C++' stream classes• Formatted and unformatted console I/O Usage of manipulators

CHAPTER 4	FUNCTION IN 'C++'
	<ul style="list-style-type: none">• Call by reference, Return by reference• Function overloading and default arguments• Inline function• Static class members• Friend functions• Virtual Functions
CHAPTER 5	CONSTRUCTORS AND DESTRUCTOR
	<ul style="list-style-type: none">• Concept of Constructor• Types of Constructors• Memory allocation (new and delete)• Usage of destructor
CHAPTER 6	OPERATOR OVERLOADING
	<ul style="list-style-type: none">• Overloading Unary and Binary operators• Overloading using friend function
CHAPTER 7	INHERITANCE
	<ul style="list-style-type: none">• Types of inheritance• Virtual base classes and abstract base classes Constructor and destructor in derived class
CHAPTER 8	WORKING WITH FILES
	<ul style="list-style-type: none">• File operations• File pointer and their manipulation File updation with random access
CHAPTER 9	EXCEPTION HANDLING
	<ul style="list-style-type: none">• Various Exception Handling classes• Implementing try and catch block• Use of throw keyword

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