

## HISTORY & INTRODUCTION

*History of Programming Language , Generation of computer Language , History of C/C++ , Running Your First Computer Program*

## OPERATORS & BASIC OPERATIONS

*Tokens , Data Types, Variables, Working with operators, Controls statements including if-else, loops, comparison of loops, Nested Loops*

## DATA STORAGE

*Using Array, Strings , 2D Arrays, 2D Character Arrays, String Library Functions*

## FUNCTIONS

*Understanding their usage, Creating user-defined functions , extensive practice of functions, understanding storage classes*

## POINTERS

*Understanding Memory allocation of variables, creating pointers, reading and writing pointers, , Pointer to Arrays, Pointer to String, Call by Ref, Call by Value*



## OBJECT ORIENTED 1

*Understanding concept of classes , objects, data members, member functions, self creating user defined classes , Access specifier*

## OBJECT ORIENTED 2

*Using inheritance, virtual Base class polymorphism: Virtual Functions, Function Overloading , Operator Overloading and using classes objects in modules*

## DATA STRUCTURES

*Linear Search, Binary Search, Bubble Sort, Selection Sort, Stacks, Ques , Linked List*

## FILE HANDLING

*Reading & Writing Files using characters , Reading & Writing Objects.*

## ADDITIONAL TOPICS

*Command Lines Arguments, Installing Code blocks and using GCC Compiler*



## VERSION CONTROL WITH GIT

*Understanding concept of Git & importance of version control , working with core git commands clone, commit, push, pull , branch and merge*



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