



C LANGUAGE

➤ Introduction to C

- History of C
- Feature of C
- Importance of C
- About Procedural Language

➤ Introduction to

- Role of Compiler
- Role of Interpreter
- Compiling & Linking

➤ An Overview of C and Buzzwords

- Data Type Variable
- Operators
- Control Statement
- Preprocessor Directives

➤ Input and Output Operators

- Reading/Writing Characters
- Formatted input/output Function

➤ Decision Making and Looping

- The IF.....ELSE Statement
- Nesting of IF.....ELSE Statement
- The Switch Statement
- The While Statement

- The DO and FOR Statement

➤ Arrays and String

- One/Two/Multi Dimensional Arrays
- Dynamic Arrays
- Reading String from Terminal
- Writing String to Screen
- String Handling Function
- Table of String

➤ Function

- Defining Function
- Benefit of Function
- Nesting of Function
- Recursion
- Variable Storage Classes
- Variable arguments Function

➤ Pointers

- Understanding Pointers
- Pointer Expressions
- Pointer and Arrays
- Pointer and Character String
- Pointer to Function
- Pointers and Structures

➤ Structures and Unions

- Defining a Structure



- Benefit of Structure
- Size of Structure
- Arrays of Structure
- Structures of Function
- Defining Unions

➤ **Dynamic Memory**

Allocation

- Introduction to Dynamic Memory Allocation
- Malloc, Calloc, Realloc, Free
- Concepts of Linked Lists
- Creating a Linked Lists
- Inserting/Deleting an item
- Application of Linked Lists

➤ **File Management In C**

- Introduction to File Management
- Opening/closing a File
- Input/output Operations on Files
- Error Handling During I/O Operations
- Command Line Arguments

➤ **The Preprocessor**

- Macro Substitution
- File Inclusion
- Compiler Control Directives

➤ **Data Structure with C**

- Introduction of Link List & Array
- Stack with Array & Link List
- Queue with Array & Link List
- Sorting Like Bubble, Insertion, Quicksort, Mergesort, etc....
- Searching

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