



COURSE CURRICULUM

INTRODUCTION TO C

- History of C language
- Features of C language
- Importance of C language
- Procedural approach

C LANGUAGE ENVIRONMENT

- Introduction to compiler, interpreter, assembler
- Working of compiler
- Compiling, linking and running process
- IDEs

BASICS OF C LANGUAGE and Buzzwords

- Preprocessor directives
- Data type
- Variables
- Constants
- Identifiers
- Tokens
- Key words

INPUT AND OUTPUT INSTRUCTIONS

- Reading and writing functions
- Built in functions

FLOW CONTROL STATEMENTS

- Jump statements(goto, break, continue)
- If statement
- If else statement
- Nested if else statement
- If else if ladder statement
- Switch case statement
- Loops(for, while, do while)

POINTERS

- Introduction to pointers
- Pointer expressions
- Types of Pointers
- Void Pointer
- NULL Pointer
- Wild Pointer
- Dangling Pointer
- Various examples of pointers
- Pointer Arithmetics

- Array using pointers
- String using pointers
- Pointers in Functions

ARRAY AND STRING

- Introduction to array
- One, two, multi-dimensional arrays
- Various operations on array
- Applications of array
- Sorting and searching in array
- Introduction to string
- Various operations on strings
- Applications of string

FUNCTIONS

- Introduction to functions
- Types of functions
- Nesting of functions
- Various examples of functions
- Integer passing is functions
- Strings passing is functions
- Function returning address
- Recursion
- Storage classes

STRUCTURE

- Introduction to structure
- Advantages of structure
- Array of structure
- Structure using pointer
- Structure with functions
- Applications of structure

UNION

- Introduction to union
- Advantages of union

DYNAMIC MEMORY ALLOCATION

- Introduction to dynamic memory allocation
- Advantage of dynamic memory allocation
- Malloc(), calloc(),realloc(),free();
- Array implementation using dynamic memory allocation

ENUM

- Introduction to enum
- Various examples of enum

FILE MANAGEMENT

- Introduction to file management
- File opening modes
- Opening and closing a file
- Input output operations on file
- Error handling
- Command line arguments
- Applications of file management

PREPROCESSOR

- Macros
- File inclusions
- Compiler control directives

Partners :



Java



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