



Hibernate Course Content

1. Basics of C

- ✓ History and Features of C
- ✓ Importance of C
- ✓ About Procedural Language
- ✓ Role of Compiler
- ✓ Role of Interpreter
- ✓ The Structure of a C Program
- ✓ Writing C Programs
- ✓ Building an Executable Version of a C Program
- ✓ Debugging a C Program
- ✓ Examining and Running a C Application Program

2. 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

3. Control Statement

- ✓ The IF.....ELSE Statement
- ✓ IF.....ELSE ladder
- ✓ Nesting of IF.....ELSE Statements
- ✓ The Switching Statements
- ✓ The do-while Statement
- ✓ The while statement
- ✓ FOR Statements



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4. Array in C

- ✓ Array : What and Why?
- ✓ One Dementions Arrays
- ✓ Two Dementions Arrays
- ✓ Multi Dimentions Arrays
- ✓ Dynamic Arrays

5. String Handling

- ✓ Reading String from Terminal
- ✓ Writing String to Screen
- ✓ String Handling Functions
- ✓ Table of String

6. Function in C

- ✓ Function Basics
- ✓ Advantage of Function
- ✓ Recursion
- ✓ Variable Storage Classes
- ✓ Variable arguments Function

7. Pointers in C

- ✓ Understading Pointers
- ✓ Pointer expressions
- ✓ Pointer and Arrays
- ✓ Pointers and Character String
- ✓ Pointers to Functions
- ✓ Pointers and Structures

8. Structures and Unions

- ✓ Defining a Structure
- ✓ Advantage of Structure
- ✓ Size of Structure
- ✓ Arrays of Structures



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- ✓ Structures and Functions
- ✓ Defining Unions

9. Dynamic Memory allocation

- ✓ Introduction to Dynamic Memory Allocation
- ✓ Malloc
- ✓ Calloc
- ✓ Realloc
- ✓ Free

10. LinkedList

- ✓ Concepts of Linked Lists
- ✓ Creating a Linked Lists
- ✓ Inserting/Deleting an item
- ✓ Application of Linked Lists

11. 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

12. Preprocessor

- ✓ Macro Substitution
- ✓ File Inclusion
- ✓ Computer Control Directives

13. Project Development

14. Creating Viruses