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**Pointers in C**

* Understanding Pointers
* Pointer expressions
* Pointer and Arrays
* Pointers and Character String

**Structures and Unions**

* Defining a Structure
* Advantage of Structure
* Size of Structure
* Arrays of Structures
* Structures and Functions
* Defining Unions

**Dynamic Memory allocation**

* Introduction to Dynamic Memory Allocation
* Malloc
* Calloc
* Realloc
* Free

**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

**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

**Array in C**

* Array: What and Why?
* One Dimensions Arrays
* Two Dimensions Arrays
* Multi Dimensions Arrays
* Dynamic Arrays

**String Handling**

* Reading String from Terminal
* Writing String to Screen
* String Handling Functions
* Table of String

**Function in C**

* Function Basics
* Advantage of Function
* Recursion
* Variable Storage Classes
* Variable arguments Function

**TECHNOLOGY: C PROGRAMMING**

**DURATION: MODULE 1 (4 WEEKS)**

**MODULE 1:**

**C Programming Essentials**

**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

**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

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