

C Programming:

- 1: Introduction to C Programming:
 - Simple C programs
 - Input/Output functions
 - Variables
- 2: Operators and Expressions:
 - Arithmetic Operators
 - Unary Operators
 - Relational and Logical Operators
 - The Conditional Operator
 - Bitwise Operators
 - The Increment and Decrement Operators
 - The Size of Operator
 - Precedence of operators.
- 3: Data Types and Keywords
 - Data types and sizes
 - Mixed-mode Expressions
 - The type cast Operator
 - Keywords
 - Interactive Programming.
- 4: Control Statements and Decision Making:
 - The if statement
 - The if-else statement
 - The switch statement
 - The while loop
 - The do...while loop
 - The for loop
 - The break statement and continue statement.
- 5: Arrays and Strings:
 - One Dimensional Arrays
 - Passing Arrays to Functions
 - Multidimensional Arrays
 - Strings
- 6: Pointers:
 - Basics of Pointers
 - Pointers and One-dimensional Arrays
 - Pointer Arithmetic
 - Pointers and Strings
- 7: Structures and Unions:
 - Basics of Structures
 - Arrays of Structures
 - Pointers to Structures
 - Self-referential Structures
 - Unions.
- 8: Functions:
 - Function Basics
 - Function Prototypes and Passing Parameters
 - Passing string to function
 - Passing array to function
 - Functions Recursion
- 9: Storage Classes:
 - Storage Classes and Visibility

Automatic or local variables

Global variables

Static variables

External variables

Register variables

10: Dynamic Memory Allocation and Linked List:

Dynamic Memory Allocation

malloc

calloc

The Concept of linked list

Basic operations on linked lists