

1. Introduction to C

- Overview of C
- Simple C program
- Data Types in c
- Keywords in c
- Basic IO operation
- C Operators
- C Comments
- C Escape Sequence
- Constants in C

2. C Control Statements

- Decision Control Structure
- Loop Control Structure
- Jump Statements
- Switch – case Statement

3. Arrays

- Introduction to array
- 1- Dimensional integer Array
- 1- Dimensional character Array
- 2- Dimensional integer Array
- 2- Dimensional character Array

4. Functions

- Introduction to Functions
- Library functions
- Library String functions
- Function in detail
- Function prototyping
- Argument passing
- Recursion

5. Pointers

- What is pointer?
- Different types of pointers
- Defining Different types of pointers
- Address of and value at operators
- Size of operator
- Function pointers

6. Structures in c

- What is structures?
- Initialization and assignment
- Structure and arrays
- Structures and Functions
- Unions

7. Macros and storage class

- The C Preprocessor
- Macros
- File Inclusion
- Storage Classes

8. File Input/Output

- Console I/O and File I/O
- Opening a file
- Reading from a file
- Deleting a file
- Using the redirection operators
- Binary-mode file handling
- Random file accessing

9. Command Line arguments

- What are Command Line arguments?
- Creating your own command

10. Data Structure

- Stacks and Queues
- Linked list
- General Linked Lists
- Trees