

C PROGRAMMING (HANDS-ON TRAINING)



DETAILED OUTLINE

What will you learn in this course? Let's see!

Introduction to C Language

- About C Programming
- How to setup C workspace in your system

Structure of C Program

- Basic example for C Program (i.e., Hello World)
- Compile and execute the program

Basic C Program Syntax

- Tokens in C
- Comments
- Identifiers
- Keywords



Data Types

- Integers types
- Floating Point types
- Void type

Variables and Constants

- Variable Declaration in C
- Variable Initialization in C

C Operators

- Arithmetic Operators
- Relational Operators
- Logical Operators
- Bitwise Operators
- Assignment Operators
- Operations Precedence in C

Control Statements in C

- If statement
- If else statement
- Nested if statement
- Switch statement
- Nested switch statement

Looping Statements in C

- While loop
- For loop
- Do while loop
- Nested loops
- Break statement
- Continue statement



- Go to statement
- The infinite loop

C Functions

- Defining a function
- Function declarations
- Calling a function

C Arrays

- Declaring Arrays
- Initializing Arrays
- Accessing Array Elements

C Strings

- Declaring String
- Initializing String
- String Operations

PROGRAMS COVERED

- Palindrome
- Prime Number
- Leap Year
- Pattern Printing
- Fibonacci Sequence
- Armstrong Number
- Simple Calculator
- Factorial of a Number
- Sorting
- Number (sum of digits, even and odd digits, sum of even and odd)