

Advance C Programming

10 days

The Advanced Programming in C course covers the more advanced aspects of programming in C language such as handling a variable number of parameters, low-level I/O, memory and strings, processes and threads, network socket programming, and advanced input and output operations.

The following **topics** are covered in this course:

Day 1	Evolution of C Handling a variable number of parameters
Day 2	Low-level I/O
Day 3 - 4	Memory and Strings
Day 5	Processes and Threads
Day 6 - 7	Floats and Integers
Day 8	Network Sockets
Day 9	Advanced Input and Output Operations
Day 10	Assessment

The **outcomes** of this course are presented below:

1. Learn the evolution of C programming language.
2. Understand how function communicate with each other.
3. Learn how to use `stdarg.h` and its facilities
4. Declare and initialize structures
5. Understand the basic of recursive data collection and arrays as function parameters.
6. Understand the basic of disjoint compilation.
7. Understand memory block and string manipulations.
8. Create processes in Unix/Linux and MS Windows
9. Understand threads and how it works.
10. Learn network socket programming in C language.
11. Understand how to work with advanced input and output operations in C language.