

C Language Syllabus

C (pronounced like the letter C) is a general-purpose computer programming language developed between 1969 and 1973 by Dennis Ritchie at the Bell Telephone Laboratories for use with the Unix operating system. Although C was designed for implementing system software, it is also widely used for developing portable application software. C is one of the most widely used programming languages of all time and there are very few computer architectures for which a C compiler does not exist. C has greatly influenced many other popular programming languages, most notably C++, which began as an extension to C.

Language Content

9 Week / 2 Months

Data Types, Variables and Constants

Operators, Arithmetic Operators, Logical Operators, Relational Operators, Bitwise Operators, Unary Operators, Ternary Operators

Conditional Statements, Simple If Statement, Else if Statement, Nested If Statement

Looping and Iteration, FOR Statement, WHILE Statement, DO_WHILE Statement, Break and Continue

Arrays, Single Dimensional Array, Multi Dimensional Array

Functions Types of functions

Pass by value, Pass by reference, Functions and Arrays, String Functions, Recursive Functions

Class Storage, Auto Variable, Extern Variable, Static Variable, Global Variable

Structures, Union, Enum Data Type

File Handling

Pointers, Introduction, Pointer Types, Pointers to Strings, Pointers to Array, Pointers to Structure, Pointers and Dynamic Allocation of Memory, Pointers to function

Assignment

Introduction to C++ Language

C++ Language Content

Duration: 9 Week / 2 Months

Introduction To C++

Getting started with C++

Functions

Classes and objects

Constructors and Destructors

Operator Overloading

Inheritance

Pointers Virtual Functions and Polymorphism

Managing console I/O Operations

File Management In C++

Exception Handling

Template