PROFESSIONAL CERTIFICATION TRAINING FOR C PROGRAMMING

About BIT!

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About C Programming

C Programming is a general-purpose programming language which is considered as an intermediate or a middle level programming language. C programming acts as a Bridge for communicating with the hardware. Being highly structured and tested, it renders the required flexibility, portability, and has a rich library, which is used to develop dynamic software and applications.

The majority of programs working in operating systems like Unix/Linux, Windows, Android, iOS are written in C language, and is also used by Google and Microsoft to develop their software.

This course has been designed with the aim to understand the fundamentals of C Programming language which are considered to be the stepping stone for various high-level and as well as low-level languages such as C++, C#, Python, etc. which happen to be the prerequisites for becoming a skilled programmer.

Date	Lecture Details	Attendance
	Lecture-1 Introduction to C Programming	
	• History of C	
	• Features of C	
	• Environment Setup	
	• Practical Exercise	
	Lecture-2 First C Program	
	• Creating and running your first C Program	
	• Writing a C program that displays your name	
	• Structure of a C Program	
	• Practical Exercise	
	Lecture-3 Basic Syntax	
	• The preprocessor	
	• The #include statement	
	• Displaying Output	
	• Reading input from the terminal	
	• Format Specifiers	
	• Practical Exercise	
	Lecture-4 Data Types	
	• Basic Types	
	• Enumerated types	
	• The type void	
	• Derived types	
	• Integer Types	
	• Floating-Point Types	
	• The void Type	
	• Print the Area of a Rectangle	
	• Practical Exercise	
	Lecture-5 Variables	
	• Rules for defining variables	
	• Types of Variables	
	• Variable Declaration	
	• Lvalues and Rvalues	
	• Practical Exercise	

Date	Lecture Details	Attendance
	Lecture-6 Constants	
	• Integer Literals	
	• Floating-point Literals	
	• Character Constants	
	• String Literals	
	• The #define Preprocessor	
	• The const Keyword	
	• Practical Exercise	
	Lecture-7 Storage Classes	
	• The auto Storage Class	
	• The register Storage Class	
	• The static Storage Class	
	• The extern Storage Class	
	• Practical Exercise	
	Lecture-8 Operators	
	• Basic Operators	
	• Arithmetic Operators	
	• Relational Operators	
	• Shift Operators	
	• Logical Operators	
	• Bitwise Operators	
	• Misc Operator	
	• Precedence of Operators in C	
	• Practical-Convert minutes to years and days	
	• Practical-Print the byte size of the basic data types	
	• Practical Exercise	
	Lecture-9 Control Flow, Decision Making & Loop	
	• If Statements	
	• Switch Statement	
	• The ? : Operator	
	• Practical- Determine amount of Pay	
	• Practical- Determine the amount of weekly Pay	
	• Practical Exercise	
	• Loop Types	
	• Loop Control Statements	
	• The Infinite Loop	
	• While and Do-While	
	• Practical-Guess the Number	

Date	Lecture Details	Attendance
	• Practical Exercise	
	Lecture-10 Arrays	
	• Creating and using Arrays	
	• Declaring Arrays and Initializing Arrays	
	• Accessing Array Elements	
	• Arrays in Detail	
	• Practical-Generate Prime Numbers	
	• Practical-Create a simple Weather program	
	• Practical Exercise	
	Lecture-11 Functions	
	• Defining Functions	
	• Function Declarations	
	• Calling a Function	
	• Arguments and Parameters	
	• Returning data from functions	
	• Local and Global Variables	
	• Practical-Write some functions!	
	• Practical-Create a Game	
	• Practical Exercise	
	Lecture-12 Scope Rules	
	• Local Variables	
	• Global Variables	
	• Formal Parameters	
	• Initializing Local and Global Variables	
	• Practical Exercise	
	Lecture-13 Pointers and Strings	
	• Pointer Basics	
	• Defining Pointers	
	• Accessing Pointers	
	• Using Pointers	
	• Pointers and const	
	• Pointers and Arrays	
	• Pointer Arithmetic	
	• Pointers and Arrays Example	
	• Introduction to strings in C	
	• gets() and puts() in strings	
	• Calling functions using string type	

Date	Lecture Details	Attendance
	• Pointers and Strings	
	• Practical- Counting characters in a String	
	• Using Pointers as parameters	
	• Dynamic Memory Allocation	
	• malloc, calloc, and realloc	
	• Practical- Using Dynamic Memory	
	• Practical Exercise	
	Lecture-14 Structures	
	• Defining a Structure	
	• Accessing Structure Members	
	• Structures as Function Arguments	
	• Structures and Arrays	
	• Pointers to Structures	
	• Bit Fields	
	• Structures and Functions	
	• Practical-Declaring and Initializing a structure	
	• Practical Exercise	
	Lecture-15 Unions and Bit Fields	
	• Defining a Union	
	• Accessing Union Members	
	• Bit Field Declaration	
	• typedef	
	• Practical Exercise	
	Lecture-16 File Input and Output	
	• The Standard Files	
	• Accessing Files	
	• Reading for a file	
	• The getchar() and putchar() Functions	
	• The gets() and puts() Functions	
	• The scanf() and printf() Functions	
	• Practical-Find the number of lines in a file	
	• Practical-Convert characters in a file to uppercase	
	• Practical-Print the contents of a file in reverse order	
	• Practical Exercise	
	Lecture-17 Preprocessors and Header Files	
	• C Preprocessors and macros	

Date	Lecture Details	Attendance
	• Include Syntax	
	• Include Operation	
	• Once-Only Headers	
	• Standard Header Files	
	• Practical Exercise	
	Lecture-18 Type Casting and Error Handling	
	• Integer Promotion	
	• Arithmetic Conversion	
	• Divide by Zero Errors	
	• Practical Exercise	
	Lecture-19 Recursion and Variable Arguments	
	• Number Factorial	
	• Fibonacci Series	
	• Variable Arguments	
	• Practical Exercise	
	Lecture-20 Memory Management and Command Line Arguments	
	• Allocating Memory Dynamically	
	• Command Line Arguments	
	• Practical Exercise	
	Lecture -21 Doubt Session and More Practical	
	• Practical Exercise	

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