

-.:Syllabus:- 'C' Language

High End

'C'

Language

Faculty : Experience : 27 Yrs.

Qualification : Phd. In Computer Programming

Already trained more than 50 thousands prog. Students

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Fundamentals of C Language

About C tutorial
Important points about C
Why Use C
Applications of C
C Language and English Language
Features of C
C, C++ and Java

Variable in C Language

Variable Introduction in C
Variable Declaration and Initialization
Variable types and Scope in C
Local Variable in C
static Variable in C
Global variables in C
Storage Class in C

Overview of C Language

History of C
First Program in C Hello World
Basic Structure of C Programming
Tokens in C
Keywords in C
Identifiers in C
Format Specifiers
Format Specifiers Examples

Constant in C Language

Constants in C

Data Types in C Language

Introduction to Data Types in C
int Data Type in C
float Data Type in C
double Data Type in C
char Data Type in C
Range of Different data types
How to calculate the range...?

Operators and Enums in C Language

Introduction to Operators
Arithmetic Operators in C
Relational Operators in C
Bit-wise Operators in C
Logical Operators in C
Assignment Operators in C
Conditional Operator in C
sizeof() Operator in C
Operator Precedance

Shortcuts in Turbo 'C'

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Decision Making in 'C' Language

Decision Making in C Introduction
if Statement
if-else Statement
Nested if Statement
if else if Ladder
switch case
Nesting of conditional constructs

Loop control in C Language

Loop Introduction in C
while loop in C
do while Loop In C
for Loop in C
Nesting & multiple nesting in 'C'
Logic building exercises

Control Flow in C Programming

break Statement in C
continue Statement in C
goto Statement in C

Array in C Language

Single Dimensional Array
Multi-Dimensional Array in C
Integer and Character Array

String in C Language

Advanced program. using String.

Function in C Language

Function in C, Function Calling
Return type , Call by Value, User
Defined Function, Predefined
Functions.

Recursion

Advanced recursion techniques,
Tail of recursion, in depth study of
Recursions. Rules for recursions
develop the logics in recursion
programming. Tips & Tricks for recursion
Briefly explanation of recursion using
some example, like Tower of Hanoi,
factorial, and other program.

String functions in C

All String Functions
strcat(), strncat(), strcpy(), strncpy()
strlen(), strcmp(), strcmpi(), strchr()
strrchr(), strstr(), strrstr(), strdup()
strlwr(),strupr(),strrev(),strset()
strnset(),strtok()

Puzzles in 'C'

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Dynamic Memory Allocation

Introduction to DMA
calloc() and free() function
realloc() and free() function

C Pre-processor

Introduction about Pre-processor
Different type of preprocessors
#include, #define, #undef, #if, #ifdef
#ifndef, #error, __FILE__, __LINE__,
__DATE__, __TIME__, __TIMESTAMP__, pragma
macro operator, ## macro operator

Pointer in C Language

Pointer in C
types of pointer
NULL pointer
Dangling Pointer
Void/Generic Pointers
Wild Pointer
Near, Far and Huge Pointer
Pointer Expressions and Arithmetic
Pointer and Array

Structure in C Language

Structure in C
Nested Structure in C
Array of Structures in C
Pointer to Structure
Structure to Function in C
typedef in C
typedef vs #define in C

Union in C Language

How to make prog. using Union in C.

File Input/Output

Introduction to File, File Operation
Writing Structures to File. String
operations in File. Advance Files.

VDU Memory

How to Access Vdu memory,
Programming using Vdu
Dancing Doll, Games, Spot Light,
Raindrop etc. programs

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“If You Want To Become An Expert, Learn From Expert”

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Linked List

Insertion, Deletion, Sorting Linked List, Linking of Linked list and Files, Stack, Queues, Circular Queues, Writing program for the above linked list and other data stru., linked and contagious method

Graphics in ‘C’

This chapter is for all those who wish to learn C graphics programming, no knowledge of graphics concepts is required. C Graphics programming is very easy and interesting. You can use graphics programming for developing your games, in making projects, for animation etc. It's not like traditional C programming in which you have to apply complex logic in your program.

C graphics functions

draw shapes, Moving car, Smiling face animation, Paint program in c, Press me button game, bar chart, pie chart, 3d bar chart, captcha, Circles in circles. Countdown, Web browser program Traffic Light Simulation

Embedded ‘C’

Embedded C is most popular programming language in software field for developing electronic gadgets. Each processor used in electronic system is associated with embedded software.

Embedded C programming plays a key role in performing specific function by the processor. In day-to-day life we used many electronic devices such as mobile phone, washing machine, digital camera, etc. These all device working is based on microcontroller that are programmed by embedded C.

Writing program with different type of Micro controller, and control motors, other hardware, and sensors using embedded ‘C’

Key Features of the High End ‘C’ Course

1. More than 70 programs related to Loops and conditional constructs.
2. More than 30 programs related to Integer Arrays, character Arrays.
3. More than 20 programs related to Pointers
4. More than 20 programs related to Structure
5. More than 20 programs related to Files.
6. More than 70 Other Programs which will cover all other important topics, eg:
VDU Memory, Functions,
Storage class, bit fields,
‘C’ Graphics, Hardware prog. etc

Note: We will ensure after completion of the ‘C’ language Course a student will be able to Make all programs with his own. All the **Logics** will be developed. He/She will be expert in loops, Arrays, Pointers, structures, Files and will be ready to Crack any **interview**. This will be the first step towards becoming a successful software developer.

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