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Techno Comp Academy

An IT Training Institute

Branch : New Sangvi, Pune.

Contact : 9284293870

Course Content – C Programming

Introduction

Fundamentals of Computers
What is Programming
History of C Language
IDE
Installation of Sublime
Installation of VS Code
Installation of GCC
Writing First program using IDE

Basics of C Language

Tokens
white space
Constants
Variables
Keywords
Comments
Data Types
Variable Declarations
Output instruction in C
Input instruction in C
Operators in C



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Control Statements

if
if-else
else-if ladder
Nested if else
conditional operator
Switch case control
Menu driven programs

Looping / Iterative Statement

While loop
For loop
do-while loop
break
continue
Nested loop
Pattern Printing Problems
Series Problems

Functions

Function Introduction
Function call, Function Prototype, Function Definition
Predefined/library Functions and user-defined functions
Flow of program containing multiple functions
Benefits of function
Ways to define a function
 Takes nothing returns nothing
 Take Something returns nothing
 Takes Nothing Return Something

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Take Something, Return Something

Recursion

Approach to recursive solution

Array

Array Introduction

One dimensional Arrays

Multidimensional Arrays

Array Declaration Rules

Function call by Passing Arrays

Problem Solving Using an Array

Pointers

Introduction to Pointer

concept of memory address

referencing and dereferencing operators

size of pointer

Concept of Base Address

Data type of pointer

extended concept of pointers

pointer's arithmetic

Call by reference

Pointer and arrays

pointer and strings

array of pointers

pointer to an array

wild pointer

NULL pointer

Dangling pointer

void pointer

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Memory Allocation

SMA vs DMA
malloc function
calloc function
Type casting
Memory Leak
free function
realloc function

String

Introduction to Strings
null character
string functions
function call by passing string
Handling multiple strings
Implementing own functions from string.h

Structure and Union

Need of structure
Primitive and non-primitive data type
Defining structure
Local definition vs global definition of structure
Declaring structure variable
Declaring Structure pointer
Structure variable initialization during declaration

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Structure variable initialization after declaration
Taking input from user to initialize members
Structure array
Function returning structure
Function call by passing structure

Storage Classes

auto
register
static
extern

Pre-Processor Directives

#define directive
Define Symbolic constant
Parameterized #define macro
#include directive
Writing own header file mystring.h

Bitwise Operator

Operator	Operator Name

>>	Right shift
<<	Left Shift
^	Bitwise XOR
~	One's complement
&	Bitwise AND
	Bitwise OR

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File Handling

Introduction
Common file functions
Basic file operation functions
File open modes
Binary Modes
File Input and Output operations
Reading writing Text Files
Reading and writing image, video files.

Course Completion Certificate

At the end of course you will get Techno Comp Academy's Course Completion Certificate.

Duration

3 Months

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