



A.D.COMPUTER TRAINING CENTER

An ISO 9001:2015 Certified Organization

Enrolled With Ministry of Micro, Small, and Medium Enterprises (MSME)

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C- Programming Syllabus

1. Introduction to C Programming:

- History of C, features, structure of a C program.
- Constants, variables, data types, and operators.

2. Control Structures:

- Decision making: if, if-else, nested if-else.
- Looping: while, do-while, for loop, nested loops.

3. Functions and Recursion:

- Function definition and declaration.
- Function arguments and return values.
- Recursion and its applications.

4. Arrays:

- Declaration, initialization, and accessing elements.
- Array operations: sorting, searching.
- Multi-dimensional arrays.

5. Pointers:

- Pointer basics: declaration, initialization, and accessing.
- Pointer arithmetic.
- Pointers and arrays.

6. Structures and Unions:

- Defining structures and unions.
- Accessing structure members.
- Nested structures and unions.

7. File Handling:

- Opening, reading, writing, and closing files.
- Error handling in file operations.
- Sequential and random access files.

8. Dynamic Memory Allocation:

- malloc, calloc, realloc, and free functions.
- Memory management techniques.

9. Preprocessor Directives:

- Macros, conditional compilation.
- Header files and their usage.

10. Miscellaneous Concepts:

- Enumerations.
- Command-line arguments.
- Error handling and debugging techniques.

