Network Net For Complete Computer Education

'C' Language -Syllabus

1 - Introduction to C language

History of C, Features of C, Importance of C, About Procedural Language, Role of Compiler, Role of Interpreter, Compiling & Linking, Algorithm and flowchart.

2. Basics

Characterset, tokens, keywords, identifier, datatype, constant, punctuator, variable, operator, input-output methods.

3. Operator

Arithmetic, assignment, shorthand, relational, logical, unary, increment and decrement, ternary etc.

4. Input-Output function

Formatted input-output function (scanf (), printf ())

Unformatted input-output function –getchar(),getche(),getch(),pucthar(),gets()puts() etc.

❖ 5. Data Types

Basic data type, size and derived data type, sizeOf () etc.

6. Control Statement (conditional and branching)

Conditional/selection –if, if else, else if ladder, nested if, switch, nested switch, goto,break,continue etc.

7-Control Statement (Looping)

While, do while, for, nested loop, nested for etc.

8-Array

Definition, declaration, initialization, types of array, one dimensional, two dimensional, searching, sorting, insertion, deletion etc.

9-String

Definition, declaration, initialization, string and array, string library function asstrlen(), strcpy(), strcpy(), strcat() etc.

❖ 10-Structurre and Union

Definition, declaration, initialization, multiple variable concept, array of structure, array within structure, structure and string function, nested structure, union and structure etc.

❖ 11-Function

Definition, declaration, initialization, types of function, prototype, definition, function call, library function, user define function, argument/parameter, recursion, return concept, array and function, structure and function, pointer and function etc.

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12-Storage Classes

Definition, declaration, local variable, global variable, auto, static, register, extern etc.

- ❖ 13-Pointer
- Definition, declaration, initialization, pointer to pointer, pointer arithmetic, pointer and array, array of pointer, pointer and structure, pointer and function, call by value, call by reference, pointer and string etc.
- ❖ 14-The preprocessor

Macros,#define,macro without argument,macros with argument,conditional macros etc.

❖ 15-Dynamic memory allocation

Definition, types, dynamic memory allocation function -malloc(), calloc(), realloc(), free() etc.

❖ 16-File Handling

Interoduction, file operation opening, reading/writing, closing, file mode, file handling function ,fgetc(),fputc(),fgets(),fputs(),getw(),putw(),format function fprintf(),fscanf(),fread(),fwrite(),random access file etc.

- Project work.
- **❖** Note :- More than 100 programs will be practiced during the course.

Popular Compiler for 'C' language

- Turbo
- Code block
- Dev.
- Borland
- MinGW