

C Languages Syllabus



- History and Hierarchy of languages
- Translators(Compiler & Interpreter)
- Fundamental of C
 - Introduction of C,
 - Character Set
 - Variable
 - local variable
 - global variable
 - static variable
 - automatic variable
 - external variable
 - Constant Identifier , Keywords , Tokens
 - Datatypes
 - Primary Datatype
 - User defined Datatype
 - Derived Datatype
 - Why Byte in C
 - Range in C
 - Operators
 - Arithmetic Operator
 - Assignment Operator
 - Relational Operator
 - Conditional Operator
 - Logical Operator
 - Increment / Decrement Operator
 - Prefix
 - Postfix
 - Bitwise Operator
 - Special Operator
- Structure of C,
 - #define preprocessor
 - Basic program execution of C
- Typecasting, I/O
 - Type casting in C
 - Implicit
 - Explicit
 - ASCII in C
 - Input/output operation
 - Formative
 - getchar()

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- putchar()
- getcs()
- puts()
- Unformative
 - printf()
 - scanf()
- Control statement
 - Simple If , If else, Nested If else , Else if ladder
 - Switch
 - Looping, for loop, while loop, do while loop, nested for loop
 - Nested for loop, pattern examples
 - Jump statement, break, continue
- Array
 - One dimensional array
 - Two dimensional array
 - Operations on matrix
- Pointer
 - Declaration of pointer
 - Nested Pointer or pointer to pointer
 - Array subscripts
- Function
 - Standard library function
 - User define function
 - Call by value
 - Call by reference
 - Recursion function
- Storage Classes
 - Storage classes(auto, extern, static, register)
- Dynamic memory allocation
 - malloc(), calloc(), realloc(), free()
 - DMA with array and string
- String Handling
 - String handling function
 - String handling using user define function and pointer
- Structure
 - Creating Structure variable, Accessing structure member
 - Array of structure, Structure within array
- Union
 - Difference between structure and union
- Enumeration,
- typedef

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- Creating Header File
 - Creating header file in C, Preprocessor, macros
- File Handling
 - File handling operations
 - I/O operation in file handling, copy file into another file
 - Use of
 - fputc()
 - fgetc()
 - fputs()
 - fgets()
 - fprintf()
 - fscanf()
 - fwrite()
 - fread()
 - fseek()
 - ftell()
 - rewind()
- Command line arguments
- Q/A Session

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