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SUBJECT :- C LANGUAGE

❖ What is C ?

- C is Programming Language developed at AT & T's Bell Laboratories at USA in 1972.
- Designed and written by Dennis Ritchie.
- It is popular because it is easy to use, memory convenient and simple to use.
- To be able to learn higher level languages like C++, Java you must have the knowledge of C.
- It was supposed to be the origin from a Basic level language called as B.
- This language survived from 3 Decades.

❖ Structure of C.

Including Library

Void main ()

{

/*printing begins */

printf (“\n hello XYZ good morning...”);

/*..... printing ends....*/

}

❖ Void main():

- It is also called function void means no return value.
- One program & one void main because in program multiple void main then it is confused and also get error.
- So in program compite that line start it is – void main ().

{: it is opening brackets – start your program

}: it is closing brackets – end your bracketed

comment: it means guidance and helpful program

//: it is called single line comment.

/....*/: it is multiple line comment.

❖ Arrays:

An array is a fixed sized sequenced collection of elements of the same data type. It is simply a grouping like – type data. In its simplest form, an array can be used to represent a list of numbers or a list of names. Some ex. Where the concept of an array can be used:

- List of temperature recorded every hour in a day, or a month, or a year.
- List of employees in an organization.
- List of products and their cost sold by a store.
- Test scores of a class of students.
- List of customers and their telephone numbers.
- Table of daily rainfall data.

❖ History of C

- Evolved from two previous languages –BCPL, B
- BCPL (Basic combined Programming Languages used for writing OS & compilers
- B used for creating early versions of UNIX OS
- Both were “typeless” languages
- C language evolved from B (Dennis Ritchie-Bell labs).

❖ Why use c?

Mainly because it produces code that runs nearly as fast as code written in assembly language. Some ex:-

- Operating Systems
- Language Compilers
- Assemblers
- Text Editors
- Print Spoolers
- Network Drivers
- Modern programs
- Data Bases
- Utilities.

❖ ABOUT “C”

- C is a structured programming language
- C supports functions that enables easy maintainability of code, by breaking large file into smaller modules
- Comments in c provides easy readability
- C is powerful language.
- C programs built from
 - Variable and type declarations
 - Functions
 - Statements
 - Expressions.