

C Language

Chapter # 8

Getting started with C

Lecture: 02

Today's Lecture

- ▶ History of C language
- ▶ Advantage or Characteristics of C Language

History of C language

- ▶ C is a popular high level language.
- ▶ It was developed by Dennis Ritchie at AT & T Bell Laboratories in 1972.
- ▶ C Language was derived from an earlier programming language called B.
- ▶ The B was developed by Ken Thompson in 1969-70.

Advantage of C Language

► **There are different Characteristics of C Language**

1. Convenient Language
2. Well Structured Language
3. Machine Independence
4. Modularity
5. Case Sensitivity
6. Hardware Control
7. Small Language
8. Fast Code Generation

1. Convenient Language

- ▶ C is very Convenient Language.
- ▶ It provides many facilities in easier way that are difficult to use in low level language.

2. Well Structured Language

- ▶ C is a Well Structured Language
- ▶ Its syntax is very easy to understand
- ▶ The programs written in C language are easy to maintain and modify.

3. Machine Independence

- ▶ C language provides machine independence
- ▶ It means that the programs written in C language can be executed on different types of computers.
- ▶ A program written in C can be executed on Intel processors and Motorola processors.

4. Modularity

- ▶ C language the facility of modular programming.
- ▶ It means that the program can be divided into small modules.
- ▶ These modules can be developed and compiled independently

5. Case Sensitivity

- ▶ C is a case sensitive language.
- ▶ It means that it can differentiate uppercase and lowercase words.
- ▶ All keywords are written in lowercase

6. Hardware Control

- ▶ C language provides close control on hardware.
- ▶ It can be used to write efficient programs to control hardware components of computer system.

7. Small Language

- ▶ C is a small language.
- ▶ It has a small number of keywords and programming controls.
- ▶ But still it is very powerful for developing different types of programs.

8. Fast Code Generation

- ▶ The compliers of C language generate very fast code.
- ▶ The code executes very efficiently.
- ▶ So the programs take less time to execute.



The End

Read this topic from your books and ask question if any confusion.

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