C Language

Chapter # 8

Getting started with C

Lecture: 04

Today's Lecture

Basic Structure of C program

Basic Structure of C program

- The format of writing C program is called its structure.
- The basic structure of a C program is very flexible.
- It increases the power of the language.

Basic Structure Parts

It consists of following parts.

▶ Preprocessor directive

▶ Main function

▶ Program body(C statements)

Basic Structure Parts

▶ **1. preprocessor directive**

       #include<stdio.h>

▶ **2. main function**

       void main()

▶ **3. Program body(C statements)**

       {

       Printf("Hello World");

       }

1.Preprocessor Directive

▶ preprocessor directive is an instruction given to the compiler before the execution of actual program.

▶ preprocessor directive are processed by a program known as preprocessor.

▶ It is part of C complier.

▶ The semicolon is not used at the end of preprocessor directive.

▶ preprocessor directive start with hash symbol #

▶ The preprocessor directive is used in C to include header file in the program.

What is Header file

► Header file are collection of standard library function to perform different tasks.

► There are many header files for different purpose.

► The header file must be included in the program before calling any of its functions in the program.

Example of header file

► #include<stdio.h>

► #include<conio.h>

► #include<math.h>

2. The main function

▶ The main function is the place where the execution of

a C program starts.

▶ When the program is executed, the control enters

main() function and starts executing its statement.

3. Program body(C statements)

▶ A statement in C language is an instruction for the computer to perform a task.

▶ The statement are written in curly brackets.

▶ Computer performs these instructions one by one in the same sequence in which these instruction are written.

▶ Each statement in C is terminated with semicolon.

Example C program

```c
#include<stdio.h>

main()

{

    printf("pakistan");

}
```

The End

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

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