

SNS COLLEGE OF TECHNOLOGY



Coimbatore-35. An Autonomous Institution

COURSE NAME : 19CST101 PROGRAMMING FOR PROBLEM SOLVING

I YEAR/ I SEMESTER

UNIT-II C PROGRAMMING BASICS

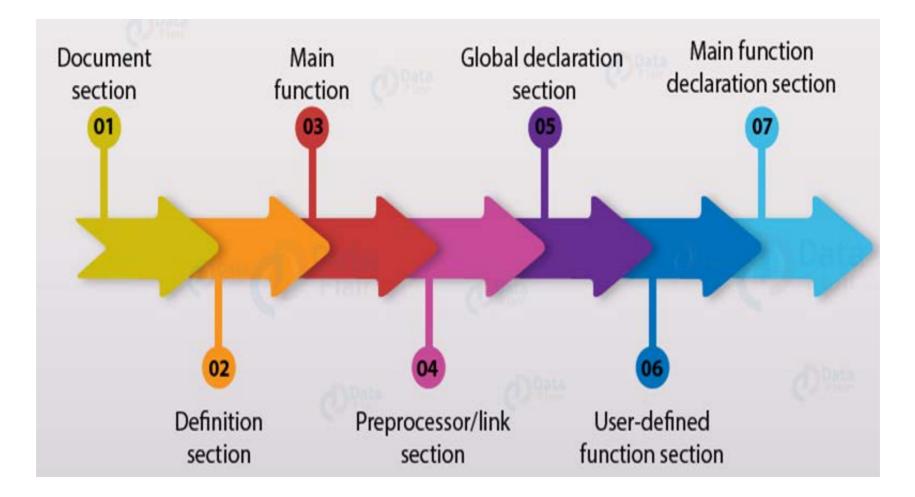
Topic: Structure of a 'C' program

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Structure of C Program







Anatomy of a C Program



- *#* include <stdio.h> is a preprocessor directive, includes all standard input-output files before compiling.
- **int main()** from here the execution of the program starts.
- { (**Opening bracket**) beginning of any function in the program.
- /* some comments */ Whatever is inside /*_____*/ are not compiled and executed; they are only written for user understanding. These are known as multiline comments. Single line comments are represented with the help of 2 forward slashes "//____".
- **printf("Hello World")** is included in the C stdio.h library, which helps to display the message on the output screen.
- **getch()** helps to hold the screen.
- **return 0** terminates the C program and returns a null value, that is, 0.
- } (Closing brackets) end of the function.



Example of C Program Structure



- The "Hello World!" example is the most popular and basic program that will help you get started with programming.
- This program helps you display the output "Hello World" on the output screen.

File Edit View Search Terminal Help
GNU nano 2.9.3
<pre>#include <stdio.h> int main() { // Our first basic program in C printf("Hello World!\n\n"); return 0; }</stdio.h></pre>



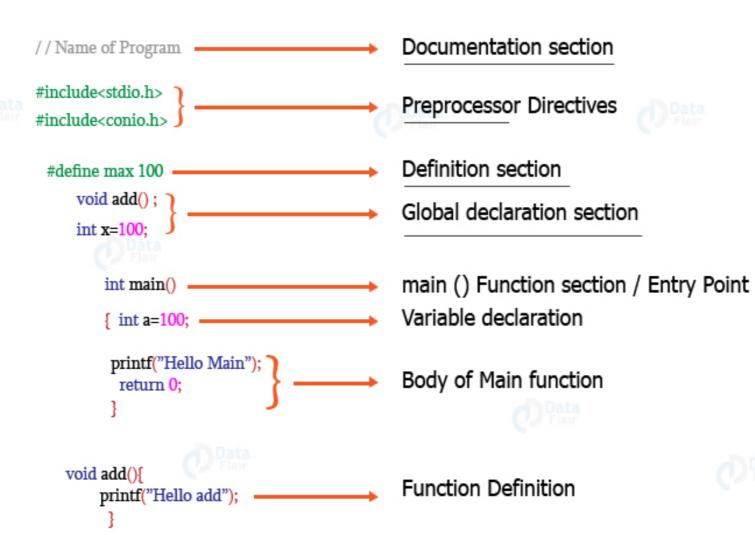


The components of the basic structure of a C program consists of 7 parts

- 1. Document section
- 2. Preprocessor/link Section
- 3. Definition section
- 4. Global declaration section
- 5. Function declaration section
- 6. Main function
- 7. User-defined function section











1. Documentation Section

Can give **comments to make the program more interactive**. The compiler won't compile this and hence this portion would not be displayed on the output screen.

2. Preprocessor Directives Section

Involves the use of **header files** that are to included necessarily in the program.

3. Definition Section

Involves the variable definition and declaration in C.

4. Global Declaration Section

Used to define the global variables to be used in the programs, that means you can use these variables throughout the program.

5. Function Prototype Declaration Section

Gives the information about a function that includes, the data type or the return type, the parameters passed or the arguments.

6. Main function

Major section from where the execution of the program begins. The main section involves the declaration and executable section.

7. User-defined function section

When you want to define your function that fulfills a particular requirement, you can define them in this section.





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