

Introduction

The C programming language is a **general-purpose, high-level language**. It is also denoted as structured language. C programming language was developed by **Dennis Ritchie at AT & T Bell Labs**.

C is one of the most commonly used programming language. It is simple and efficient so it is widely used. It is used in all extent of application mainly in the software development.

Many software and applications and compilers for other languages are written in C, and Operating system like Unix, DOS and Windows are written in C

C has many powers it is simple and it can control system hardware easily. It is also one of the few language to have an international standard named **ANSI C**

Advantage & Feature of C

1. Fast, Powerful & Efficient
2. Easy to learn
3. **Mid-level** language
4. Widely used language
5. Support modular programming style
6. Useful for all applications
7. C is the nativead language for UNIX OS.
8. Easy to connect with system device and hardware

Structure Of C Program

```
/* This program prints Hello world on  
screen */
```

```
-----  
#include "stdio.h"  
Void main()  
{  
printf("Hello world");  
}
```

1. /* This program */

The symbols /* and */ used for comment. These comments are ignored by the compiler, and are used to provide useful information about program to humans who use it.

2 #include "stdio.h"

This is a preprocessor command which tells compiler to include stdio.h file.

3 main()

C programs consist of one or more functions. There must be one and only one function called main. The brackets following the word main indicate that it is a function and not a variable

4. { }

braces surround the body of the function, which may have one or more instructions/statements.

5 printf()

It is a library function that is used to print data on the user screen.

6. "Hello World\n" is a string that will be displayed on user screen

\n is the newline character.

; semicolon ends a statement

7 return 0; return the value zero to the operating system.

C is a case sensitive language so the names of the functions must be typed in lower case as above.