

A C++ program is a collection of one or more functions.

There must be a function colled main (). Execution always begins with the first statement in function main ().

Any other functions in your program are subprograms and are not executed until they are called.

Comment // Hello World C++ program 7 // from Eclipse IDE Comment **1** #include < iostreom> preprocessor directive using nomespace std which nomespace to use 1 int moin () beginning of function named main () 7 output statement cout << "Hello World!" string literal return 0: send 0 to operating system } end of block for moin

When a line begins with a # it indicates it's a preprocessor directive.

The preprocessor reads your program before it is compiled and only executes lines begging with #.

#include directive couses the preprocessor to include the contents of onother file, AKA header file, in the program.

It's colled header file because it should be included at the top of the program.

The enclosed brockets < iostreom> is the nome of the header file to be included. (The name is iostreom, the brockets indicate that it's a standard C++ header file)

iostream file contains code that allows a C++ program to display output on the screen and read input from the keyboard.

We need to include this file because the court statement prints output to the computer screen.

C++ uses namespaces to organize the names of program entities.

The statement using namespace std declares that the program will be accessing entities whose names are part of the namespace colled std.

A function can be thought of as a group of one or more programming statements that has a name.

The name of this function is main, and the set of parentheses that follows the name indicates that it's a function.

The word int stands for "integer". It indicates that the function sends on integer value back to the operating system when it is finished executing.

Every C++ program <u>must</u> have a function colled main. It's the starting point of the program.

The function main is ALWAYS int main ()

C++ is a case-sensitive language. It regards uppercase letters as being entirely different characters than their lowercase counterports.

All statements that make up a function are enclosed in a set of throces. Everything between 2 braces is the contents of the function main.

Phoses, words, or sentences inside the quototion morks ""is colled o string, string constant, or string literal. cout is the only line in the program that couses anything to be printed on the screen. A semicolon is required to mork the end of a complete statement. return 0 sends the integer value 0 back to the operating system when the program finishes running. The value 0 usually indicates that a program executed successfully. This statement is <u>always</u> necessary in the main function. Special Lharacters 1 Beginning of a comment # Beginning of preprocessor **-**Encloses file nome in #include () Used when noming a function 7 {} Encloses a group of statements 7 Encloses string of characters 7 End of a programming statement 7

