

Hello World

Compile Command

Using GNU, the compilation command is $\,g+\!\!\!+$ followed by the file name. Here, the name of the source file is **hello.cpp**.

g++ hello.cpp

Execute Command

The execution command is ./ followed by the file name. Here, the name of the executable file is **a.out**.

./a.out

Single-line Comments

Single-line comments are created using two consecutive forward slashes. The compiler ignores any text after // on the same line.

// This line will denote a comment in C++

Multi-line Comments

Multi-line comments are created using /* to begin the comment, and */ to end the comment. The compiler ignores any text in between.

```
/*
This is all commented out.
None of it is going to run!
*/
```



Program Structure

The program runs line by line, from top to bottom:

- The first line instructs the compiler to locate the file that contains a library called iostream . This library contains code that allows for input and output.
- The main() function houses all the instructions for the program.

```
#include <iostream>
int main() {
 std::cout << "1\n";
 std::cout << "2\n";
 std::cout << "3\n";
```

Basic Output

std::cout is the "character output stream" and it is used to write to the standard output. It is followed by the symbols << and the value to be displayed.

```
std::cout << "Hello World!\n";</pre>
```

New Line

The escape sequence \n (backward slash and the letter n) generates a new line in a text string.

```
std::cout << "Hello\n";</pre>
std::cout << "Hello again\n";</pre>
```

