

Install C-Program Compiler (gcc)

You will need a C compiler to do this already installed, I use GCC. <https://gcc.gnu.org/>. If you are on a Windows computer, you can run the command `gcc -v` to check if it's already installed. If gcc is installed then it should display a host of information starting with the sentence “**Using built-in specs**”.

gcc -v

Compile the Source Code

Run the command “gcc”(the C-compiler) followed by the full name of your program (helloWorld.c) in the command prompt. This will compile your source code and create an executable file on your desktop. See below example: ***gcc <name_of_file>***

gcc helloWorld.c

NOTE: The executable file named itself probably something like ‘a.exe’. Which is fine because we never told the compiler what to name the executable file.

Let's name our executable file instead of letting the compiler do it for us. We can name the executable file by running this command in command prompt

gcc -o <name_of_executable> <name_of_source_code>

For example, I will name the executable file "hello" and the source code is "***helloWorld.c***":

gcc -o hello helloWorld.c

Run Your Program !

In this step we will run our program (the executable file) in command prompt, this can be achieved by going to the directory of the executable file in command prompt (my executable is in the same directory as my source file), then type the name of the executable file without the extension (my executable file name was hello.exe) so I typed the following:

hello

Notice: Your program should now have been executed; my program printed "Hello World!" to the command prompt!

METHOD 2

Syntax to compile single C program using GCC

```
gcc <file-name.c> -o <output-file-name>
```

Syntax to compile multiple files at once using GCC

```
gcc <file-name1.c> <file-name2.c> ...  
<file-name-N.c> -o <output-file-name>
```

Syntax to run a C program

```
<output-file-name>
```

Example to compile and run above program

Before you compile and run the above C program. You must be in the same directory as of your C program. To test your program open command prompt and execute following commands.

```
gcc hellocodeforwin.c -o hellocodeforwin
```

```
hellocodeforwin
```