

# Learn and Try

"It does not matter where you go and what you study, what matters most is what you share with yourself and the world."

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## Run a C/C++ program on terminal using gcc compiler (<https://rupinderjeetkaur.wordpress.com/2014/06/20/run-a-cc-program-on-terminal-using-gcc-compiler/>)

POSTED ON JUNE 20, 2014 ([HTTPS://RUPINDERJEETKAUR.WORDPRESS.COM/2014/06/20/RUN-A-CC-PROGRAM-ON-TERMINAL-USING-GCC-COMPILER/](https://rupinderjeetkaur.wordpress.com/2014/06/20/run-a-cc-program-on-terminal-using-gcc-compiler/))

Follow these steps to run programs on terminal:

**Step 1.** Open terminal.

**Step 2.** Type command to install gcc or g++ compiler:

**\$ sudo apt-get install build-essential**

This will install the necessary C/C++ development libraries for your Ubuntu to create C/C++ programs.

To check gcc version type this command:

**\$ gcc --version or gcc -v**

**Step 3.** Now go to that folder where you will create C/C++ programs. I am creating my programs in Documents directory. Type these commands:

**\$ cd Documents/**

**\$ sudo mkdir programs**

**\$ cd programs/**

**Step 4.** Open a file using any editor.

**\$ sudo gedit first.c** (for C programs)

**\$ sudo gedit hello.cpp** (for C++ programs)

**Step 5.** Add this code in the file:

(i). C program code:

```
#include<stdio.h>
```

```
int main()
```

```
{  
  
    printf("\n\nWelcome to my Homepage!!\n\n");  
  
    return 0;  
  
}
```

(ii). C++ program code:

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{  
  
    cout<<"\n\nHello World.\nWelcome to my first C ++ program on Ubuntu Linux\n\n"<<endl;  
  
    return 0;  
  
}
```

**Step 6.** Save the file and exit.

**Step 7.** Compile the program using any of the following command:

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(i). Compiling C program.

**\$ sudo gcc first.c**

Close and accept

It will create an executable file with ".out" extension named as "a.out".

Or

```
$ sudo gcc -o first first.c
```

Where **first** is the executable or object file of **first.c** program.

(ii). Compiling C++ program.

```
$ sudo g++ hello.cpp (or)
```

```
$ sudo g++ -o hello hello.cpp
```

**[Note:** Make sure you are in the same directory where you have created your program before compiling it.]

**Step 8.** To run this program type this command:

(i). For running C program

```
$ ./a.out (If you compiled using first command)
```

Or

```
$ ./first (If you compiled using second command)
```

(ii). For running C++ program

```
$ ./a.out (If you compiled using first command)
```

Or

```
$ ./hello (If you compiled using second command)
```

It will show output on the terminal.

Try this. All the best!!!

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