Run a C/C++ program on terminal using gcc compiler

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Follow these steps to run programs on terminal:

Step 1. Open terminal.

Step 2. Type command to install gcc or g++ complier: (DO NOT DO THIS STEP!!)

$ 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/

$ mkdir programs

$ cd programs/

Step 4. Open a file using any editor.

$ gedit first.c (for C programs)

$ gedit hello.cpp (for C++ prgrams)

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;
}
```

(i). C++ program code: (USE THIS VERSION!!!)

```
#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:

(i). Compiling C program.

$ gcc first.c

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

Or

$ gcc –o first first.c

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

(ii). Compiling C++ program.

$ g++ hello.cpp (or)

$ g++ -o hello hello.cpp **(USE THIS VERSION!!!)**

[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 – **USE THIS VERSION!!!**)

It will show output on the terminal.

Try this. All the best!!!