

SETTING UP C++ ENVIRONMENT FOR LINUX

There are many IDE's that are available for coding in C++.

Personally I use **Sublime text editor** for my C++ coding. There are many reasons that why I prefer Sublime text over other IDE's.

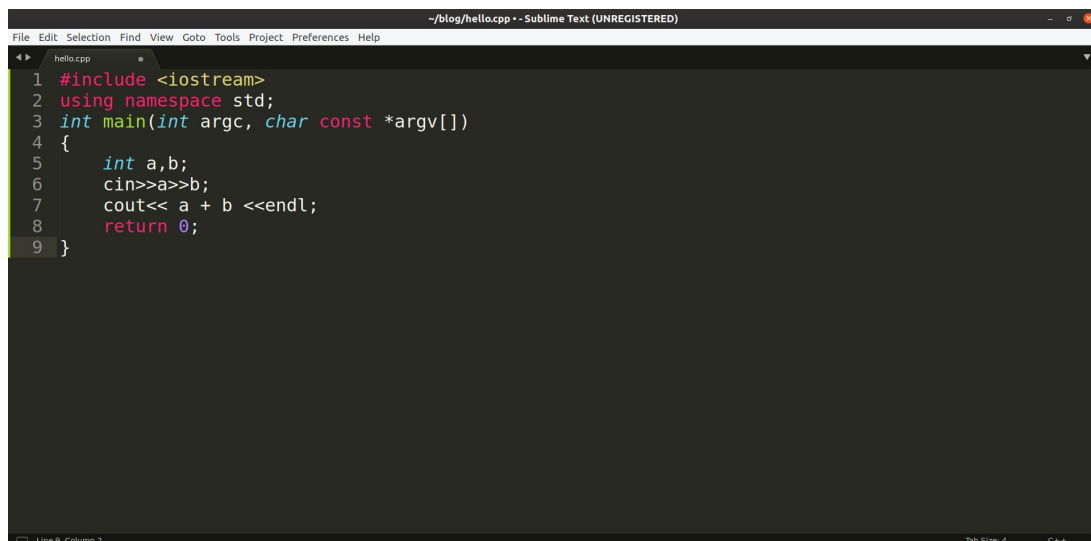
Reasons:

1. It is very fast.
2. Really Good Syntax Highlighting
3. It takes no time to open up :P
4. Very good Indentation
5. Auto complete feature is very good.

So now lets get started.....

STEPS (Linux):

1. Open up your terminal (ctrl+alt+T) and type “sudo apt-get install g++”. This is to install our g++ compiler for compiling the code.
2. You can refer sublime text website <https://www.sublimetext.com/> to install sublime text editor.
3. Now open Sublime text and start writing some c++ code.

A screenshot of the Sublime Text editor window. The title bar shows the file path as ~/blog/hello.cpp and the text "(UNREGISTERED)". The menu bar includes File, Edit, Selection, Find, View, Goto, Tools, Project, Preferences, and Help. The editor area shows a C++ program with the following code:

```
1 #include <iostream>
2 using namespace std;
3 int main(int argc, char const *argv[])
4 {
5     int a,b;
6     cin>>a>>b;
7     cout<< a + b <<endl;
8     return 0;
9 }
```

The status bar at the bottom indicates "Line 9, Column 2", "Tab Size: 4", and "C++".

4. Now go to Tools->Build System->New build system. This opens up a file with extension .sublime.build .

5. Now delete the default code and paste this one:

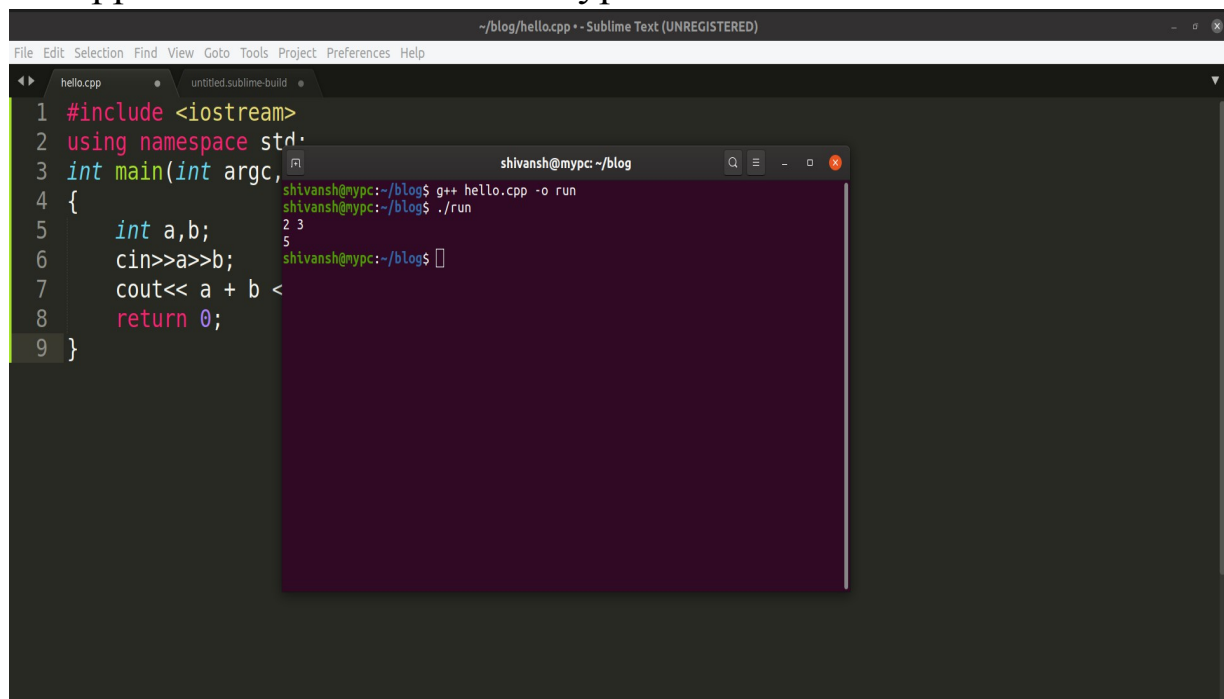
```
"cmd": ["g++.exe", "-std=c++17", "${file}", "-o", "${file_base_name}.exe", "&&"
, "${file_base_name}.exe<inputf.in>outputf.in"],
"shell": true,
"working_dir": "${file_path}",
"selector": "source.cpp"
}
```

6. Now save the file and close it.

7. Now again go to Tools->build system and there mark the file name you have saved just now.

8. Now to compile the code press “Ctrl+B”.

9. If you want to build and compile the code in Terminal type “g++ file-name.cpp -o run” . Hit enter. Then type “./run” and hit enter.



The screenshot shows a Sublime Text editor window with a file named 'hello.cpp' open. The code in the editor is as follows:

```
1 #include <iostream>
2 using namespace std;
3 int main(int argc,
4 {
5     int a,b;
6     cin>>a>>b;
7     cout<< a + b <
8     return 0;
9 }
```

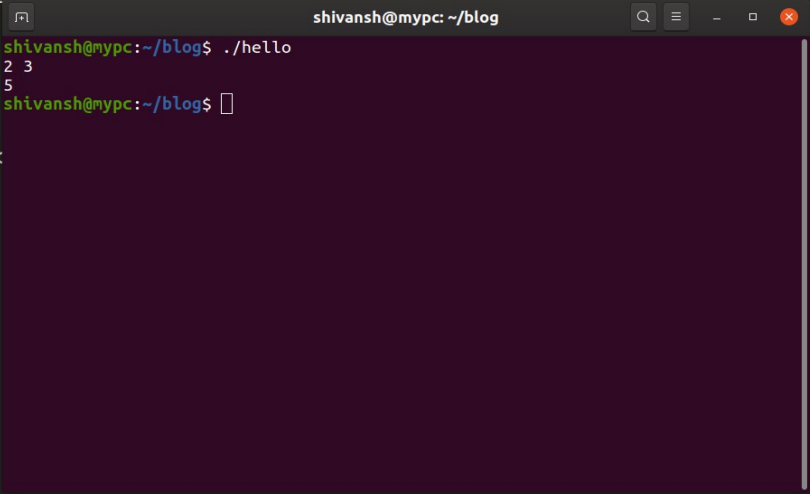
Overlaid on the editor is a terminal window titled 'shivansh@mypc: ~/blog'. The terminal shows the following commands and output:

```
shivansh@mypc:~/blog$ g++ hello.cpp -o run
shivansh@mypc:~/blog$ ./run
2 3
5
shivansh@mypc:~/blog$
```

10. To run the code open Terminal and goto the directory where the file has been saved. Now press “./file-name” and hit Enter.

```
lost stream>
space std:
nt argc,

0;
>>b;
a + b <
0;
```

A terminal window titled "shivansh@mypc: ~/blog" is shown. The prompt is "shivansh@mypc:~/blog\$". The user has entered the command "./hello". The output of the program is displayed on the next two lines: "2 3" and "5". The prompt "shivansh@mypc:~/blog\$" is shown again, indicating the program has finished execution.

```
shivansh@mypc:~/blog$ ./hello
2 3
5
shivansh@mypc:~/blog$
```

Now you can take input and get output on the Terminal:)

Now you are ready to learn C++.