INSTALLATION OF CODE-BLOCKS FOR C++

This page is about how to install Code-Block for C++ and how to create a project on Code-Block.

Assignment # 01
BY Sir Ahmed Raiz

Assignment No 1

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Submitted To:

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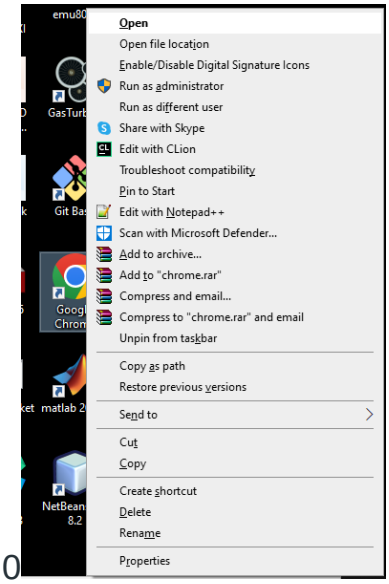
Subject : ICT LAB

Due Date : 07/11/2023

C-II Block C 2 Phase 1 Johar Town, Lahore, Punjab 54770

How to Install Code Blocks for C++ on Windows?

Step 1: Open the Chrome.



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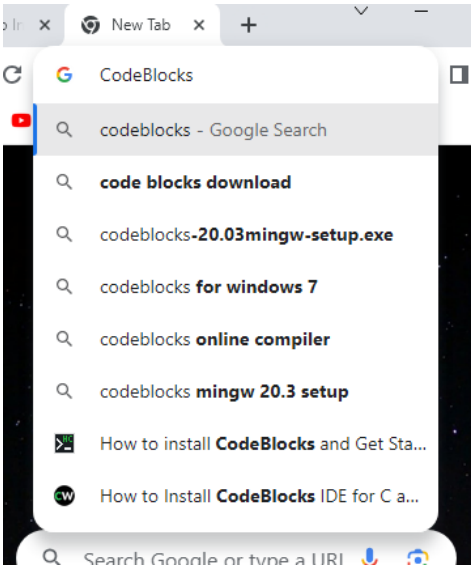
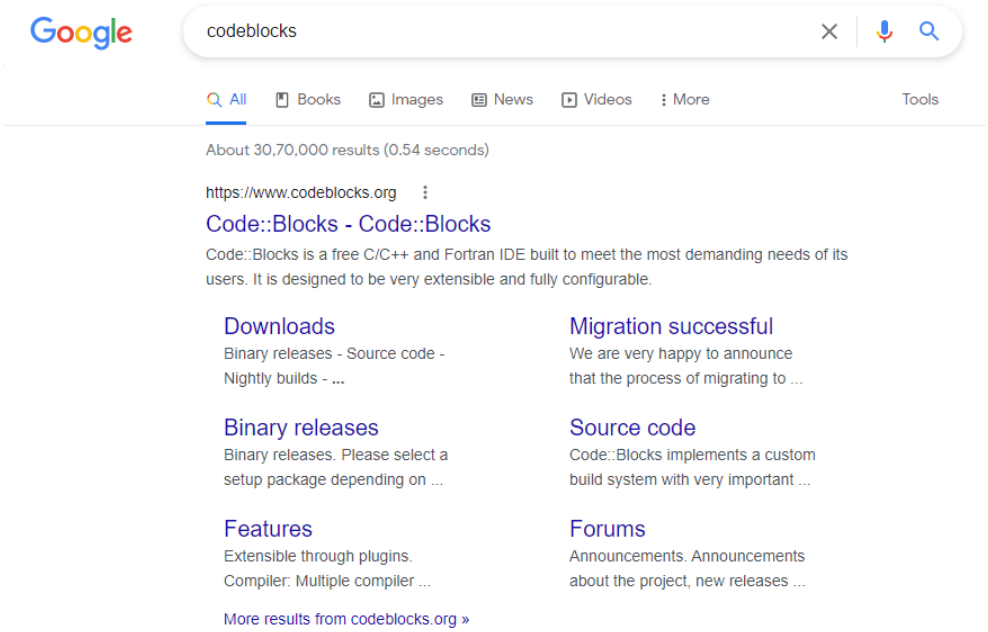
Step 2: Go to the Search Panel and Search for “Code Blocks”

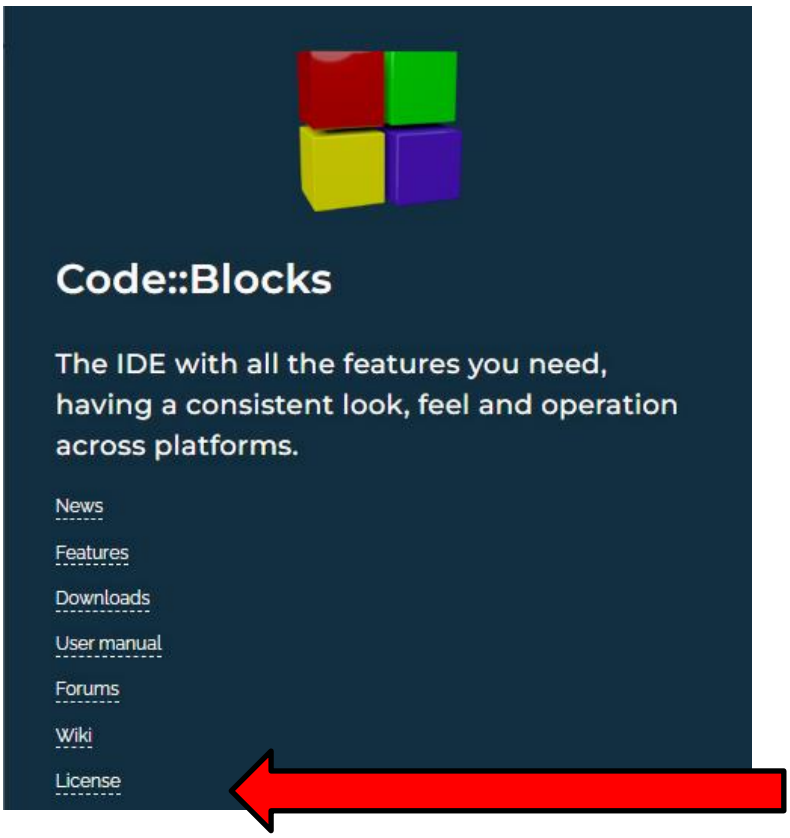


Step 3: Click on the First Result shown on the Search Engine or click on this Link:

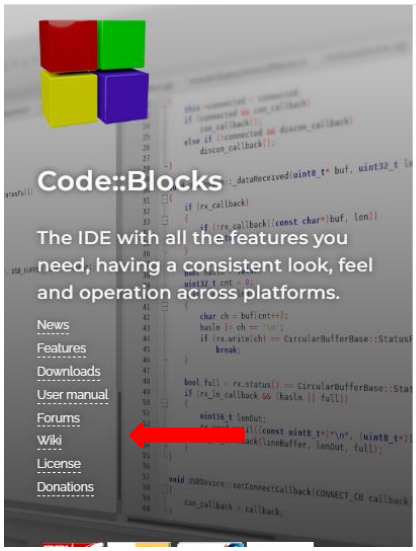
https://www.codeblocks.org/



Step 4: Click on the “Downloads” Section.



OR



Code::Blocks

Code::Blocks

The free C/C++ and Fortran IDE.

Code::Blocks is a free C/C++ and Fortran IDE built to meet the most demanding needs of its users. It is designed to be very extensible and fully configurable.

Built around a plugin framework, Code::Blocks can be extended with plugins. Any kind of functionality can be added by installing/coding a plugin. For instance, event compiling and debugging functionality is provided by plugins!

If you're new here, you can read the user manual or visit the Wiki for documentation. And don't forget to visit and join our forums to find help or general discussion about Code::Blocks.

We hope you enjoy using Code::Blocks!

The Code::Blocks Team

Latest news

Migration successful

We are very happy to announce that the process of migrating to the new infrastructure has completed successfully!

Step 5: Click On “Download the binary release”.

Downloads

There are different ways to download and install Code::Blocks on your computer:

- **Download the binary release**

  This is the easy way for installing Code::Blocks. Download the setup file, run it on your computer and Code::Blocks will be installed, ready for you to work with it. Can't get any easier than that!

  - Download a nightly build

    There are also more recent so-called nightly builds available in the forums. Please note that we consider nightly builds to be stable, usually, unless stated otherwise.

  - Other distributions usually follow provided by the community (big "Thank you!" for that!). If you want to provide some, make sure to announce in the forums such that we can put it on the official C::B homepage.

- **Download the source code**

  If you feel comfortable building applications from source, then this is the recommend way to download Code::Blocks. Downloading the source code and building it yourself puts you in great control and also makes it easier for you to update to newer versions or, even better, create patches for bugs you may find and contributing them back to the community so everyone benefits.

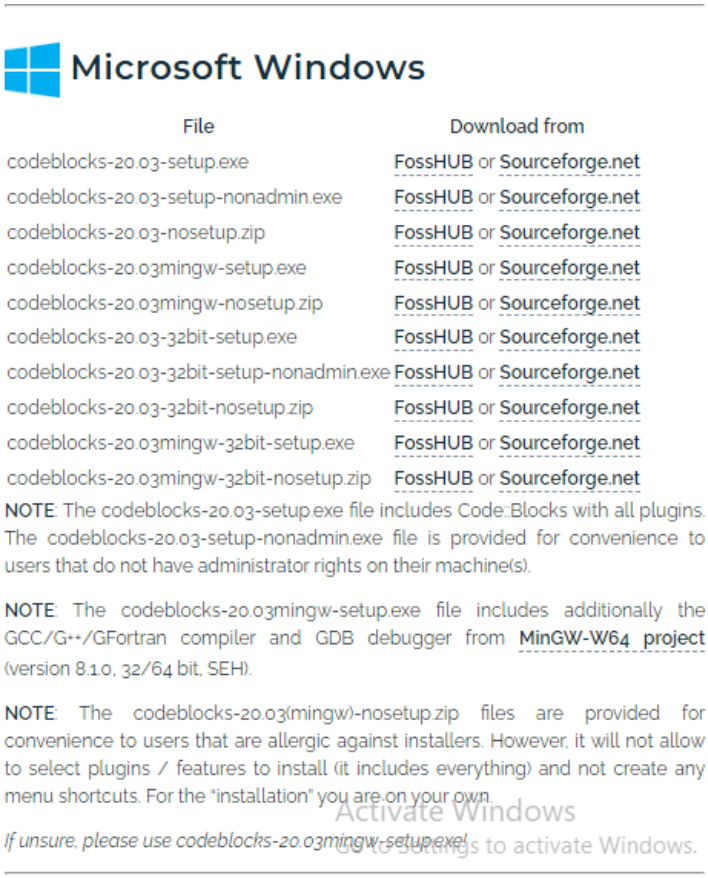
- **Retrieve source code from SVN**

  This option is the most flexible of all but requires a little bit more work to

Step 6: As per this Date, the Latest Version of Code Blocks is 20.03. Now here you'll find several download options

1. codeblocks-20.03-setup.exe : It is a standard executable file that is easier to install.
2. codeblocks-20.03-nosetup.zip : It is a zip file which you do not have to install , you can just unzip and run it.

I'll suggest you download the file with MinGW written on it ("codeblocks-20.03mingw-setup.exe") as MinGW is a Compiler that is needed to run the Program. If you download the normal setup file then you have to download The compiler separately.



Microsoft Windows

File	Download from
codeblocks-20.03-setup.exe	FossHUB or Sourceforge.net
codeblocks-20.03-setup-nonadmin.exe	FossHUB or Sourceforge.net
codeblocks-20.03-nosetup.zip	FossHUB or Sourceforge.net
codeblocks-20.03mingw-setup.exe	FossHUB or Sourceforge.net
codeblocks-20.03mingw-nosetup.zip	FossHUB or Sourceforge.net
codeblocks-20.03-32bit-setup.exe	FossHUB or Sourceforge.net
codeblocks-20.03-32bit-setup-nonadmin.exe	FossHUB or Sourceforge.net
codeblocks-20.03-32bit-nosetup.zip	FossHUB or Sourceforge.net
codeblocks-20.03mingw-32bit-setup.exe	FossHUB or Sourceforge.net
codeblocks-20.03mingw-32bit-nosetup.zip	FossHUB or Sourceforge.net

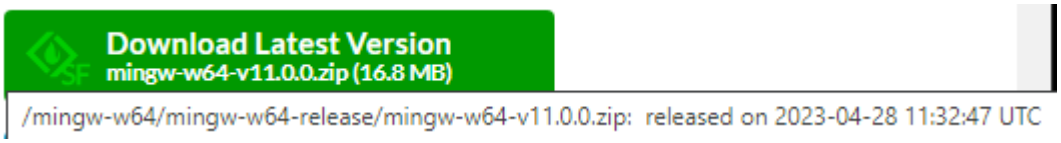
NOTE: The codeblocks-20.03-setup.exe file includes Code::Blocks with all plugins. The codeblocks-20.03-setup-nonadmin.exe file is provided for convenience to users that do not have administrator rights on their machine(s).

NOTE: The codeblocks-20.03mingw-setup.exe file includes additionally the GCC/G++/GFortran compiler and GDB debugger from MinGW-W64 project (version 8.1.0, 32/64 bit, SEH).

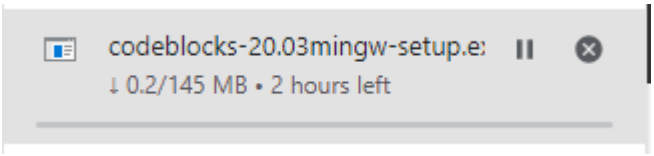
NOTE: The codeblocks-20.03(mingw)-nosetup.zip files are provided for convenience to users that are allergic against installers. However, it will not allow to select plugins / features to install (it includes everything) and not create any menu shortcuts. For the "installation" you are on your own.

If unsure, please use codeblocks-20.03mingw-setup.exe!

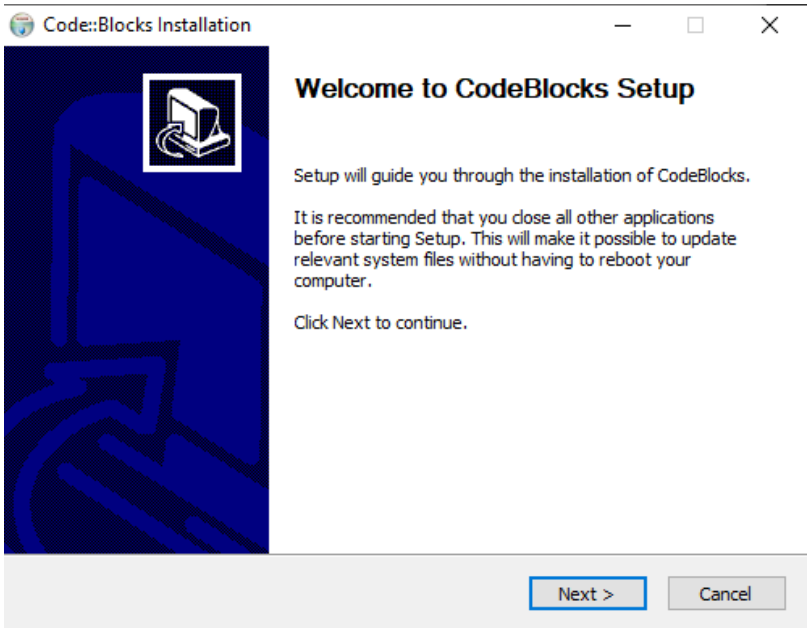
Step 7: Click on Sourceforge.net under the Download Section of your desired file.



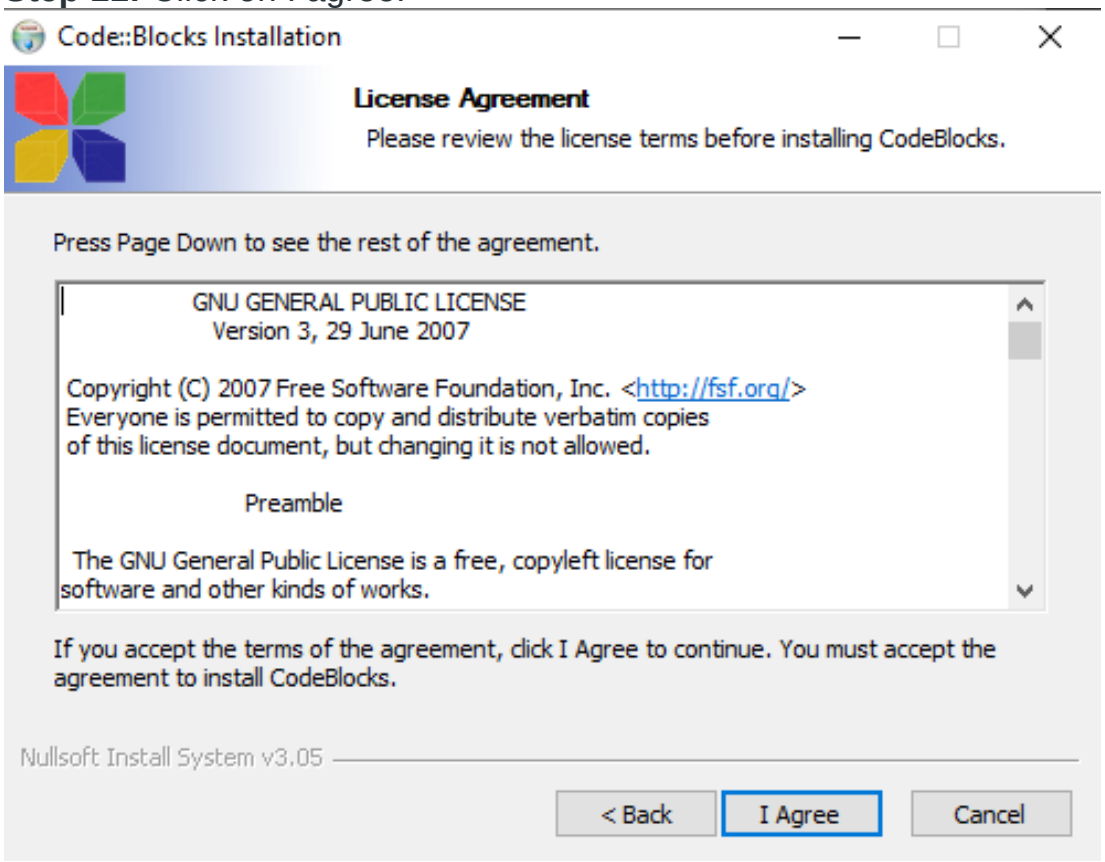
Step 8: then Download should begin within some seconds.



Step 9: When the download is completed, Open Your Code Blocks Setup File.
Step 10: Click on Next.

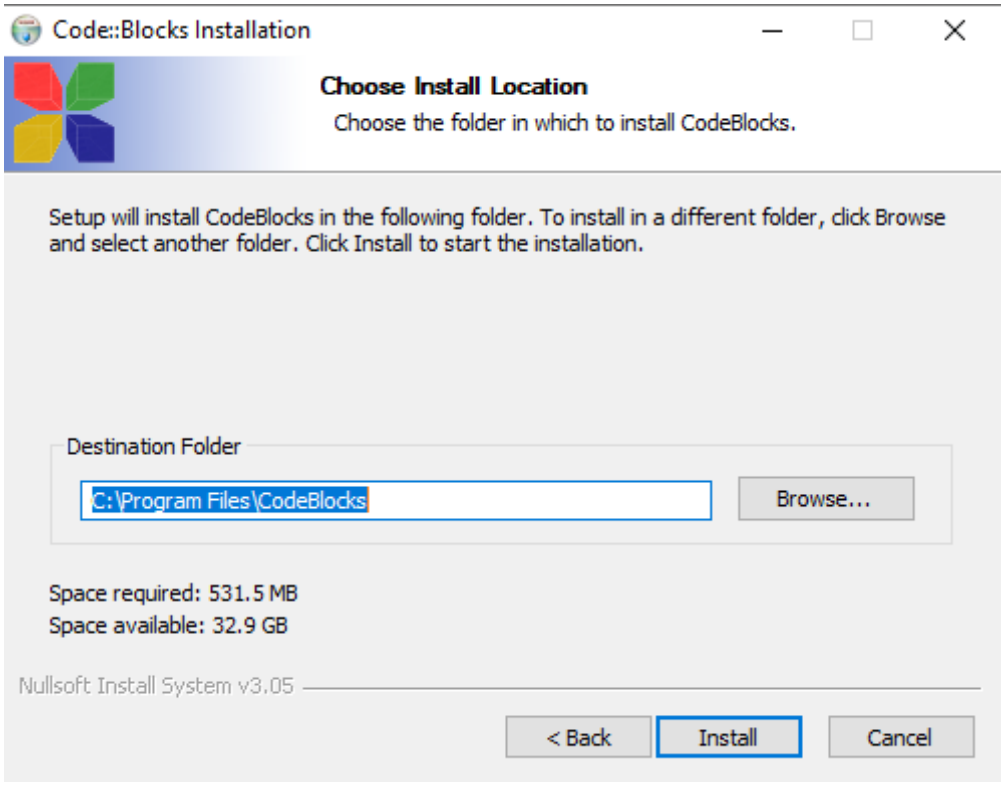


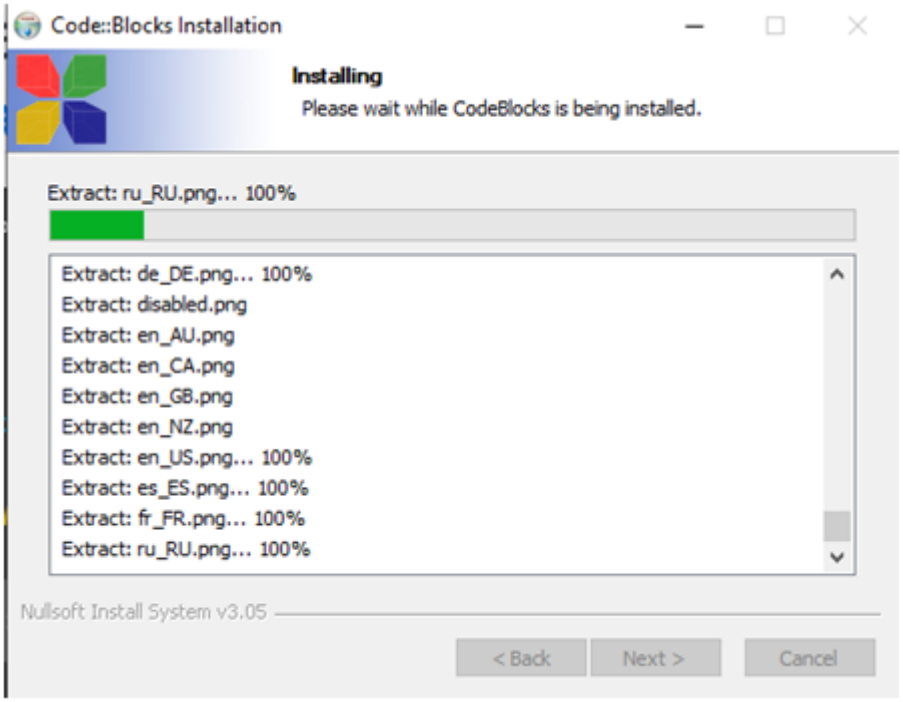
Step 11: Click on I agree.



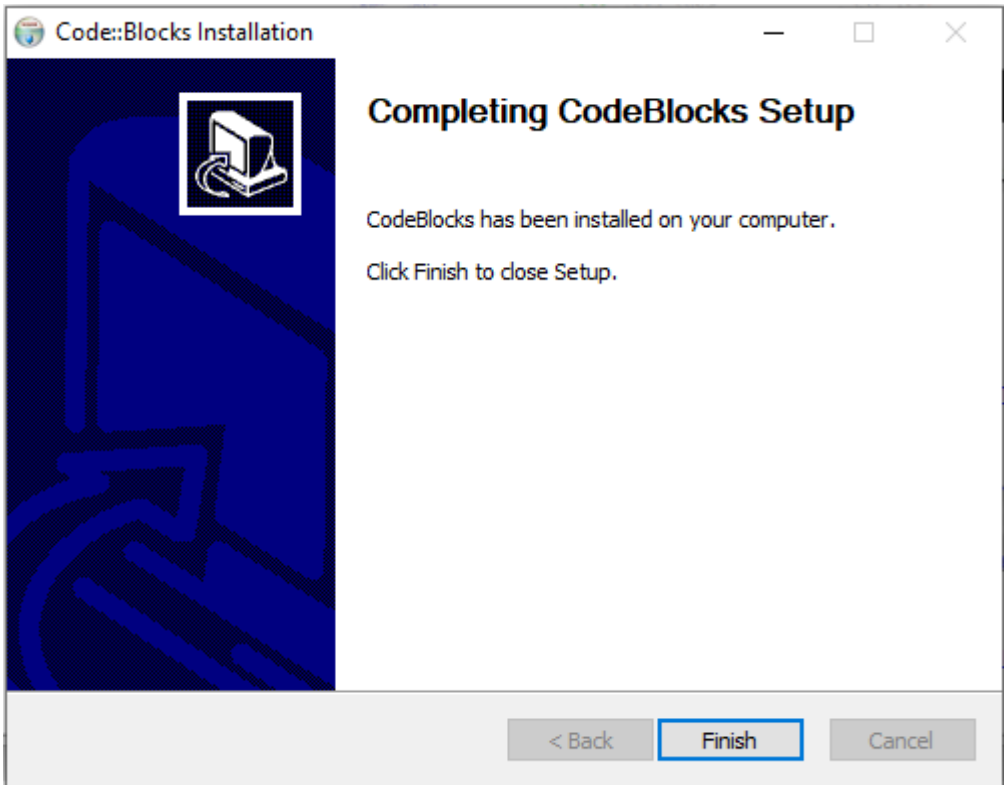
Step 12: Click On Next (you need to have at least 600 MB free storage on your drive for the installation).

Step 13: Select your Destination and Click on Install





Step 14: Once Installation gets completed, click on Next and then Click on Finish.

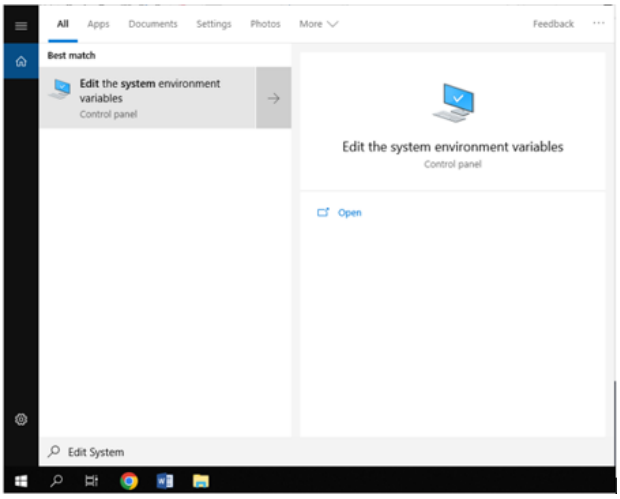


Now You Code Blocks have been installed.

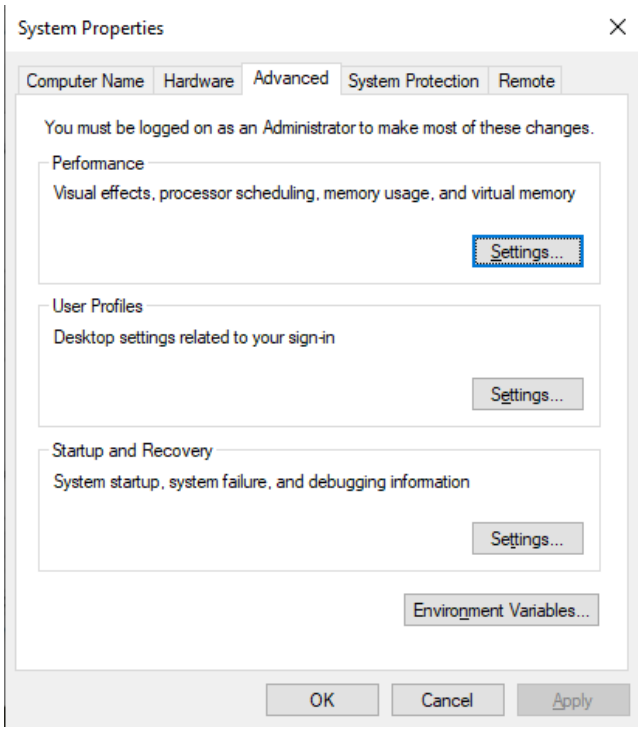
To Set the Environment Path of GCC compiler.

Step 1: Go to your Code Blocks MinGW installation folder location (For me it is C:\Program Files\CodeBlocks\MinGW\bin) and copy the address

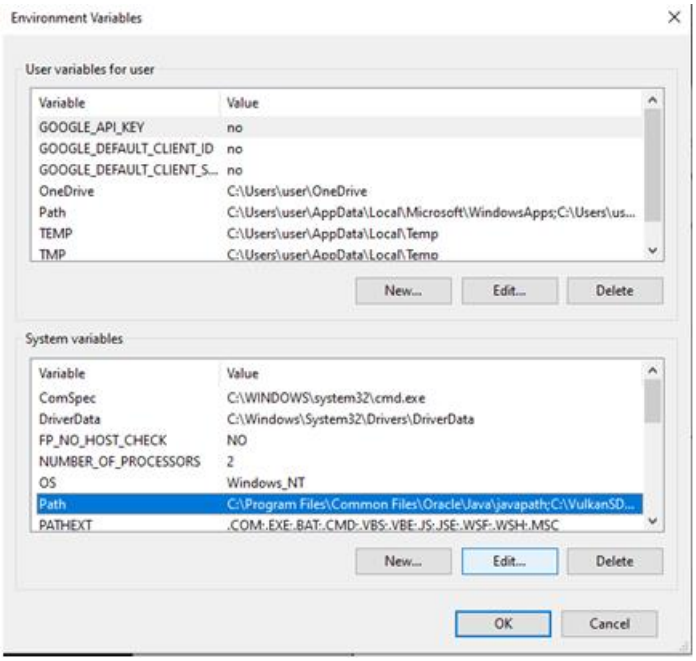
Step 2: Go to Search Panel and type "**Edit System environment variable**s"



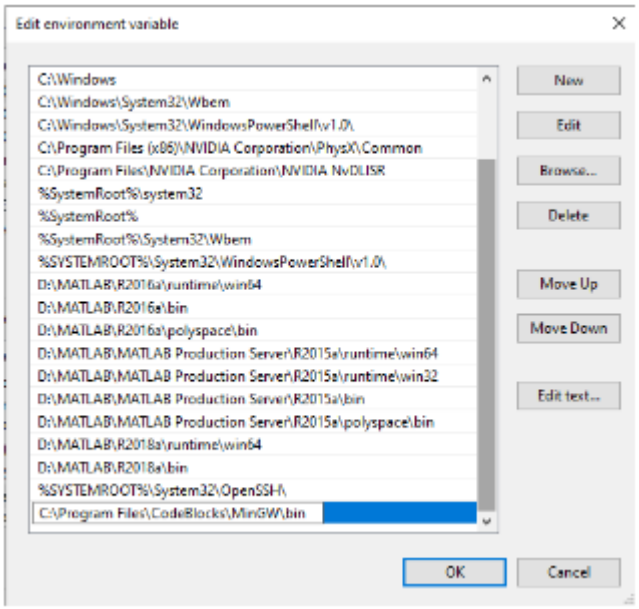
Step 3: Click On Environment Variables



Step 4: Under System variables, Click on Path and Select Edit



Step 5: Click on New and Paste the Address into it and click on OK



Now Code Blocks will automatically detect GCC Compiler.

Step 6: Now simply open it from DESKTOP or LOCATION which is (c:/program file/Code Block).

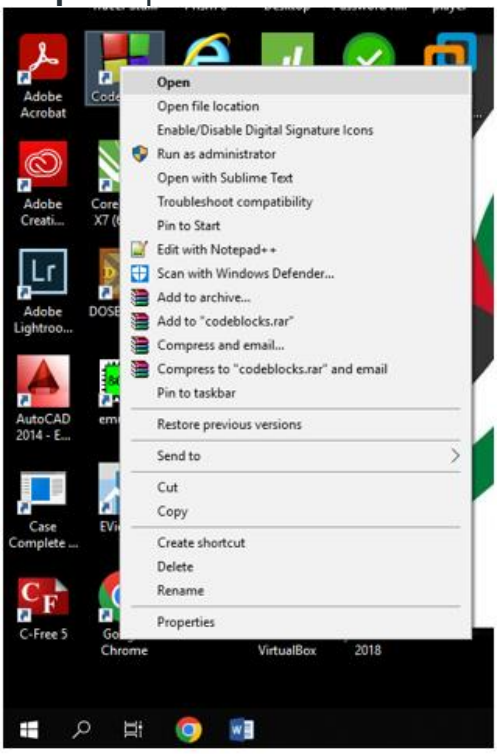
How to create new C/C++ project in CodeBlocks

Code::Blocks:

is a IDE(Integrated Development Environment) for creating C/C++ projects. It is simple to use and provides very basic but powerful interface. CodeBlocks can be used for creating, editing, compiling, running and debugging C/C++ projects. Here is a beginner guide to use CodeBlocks.

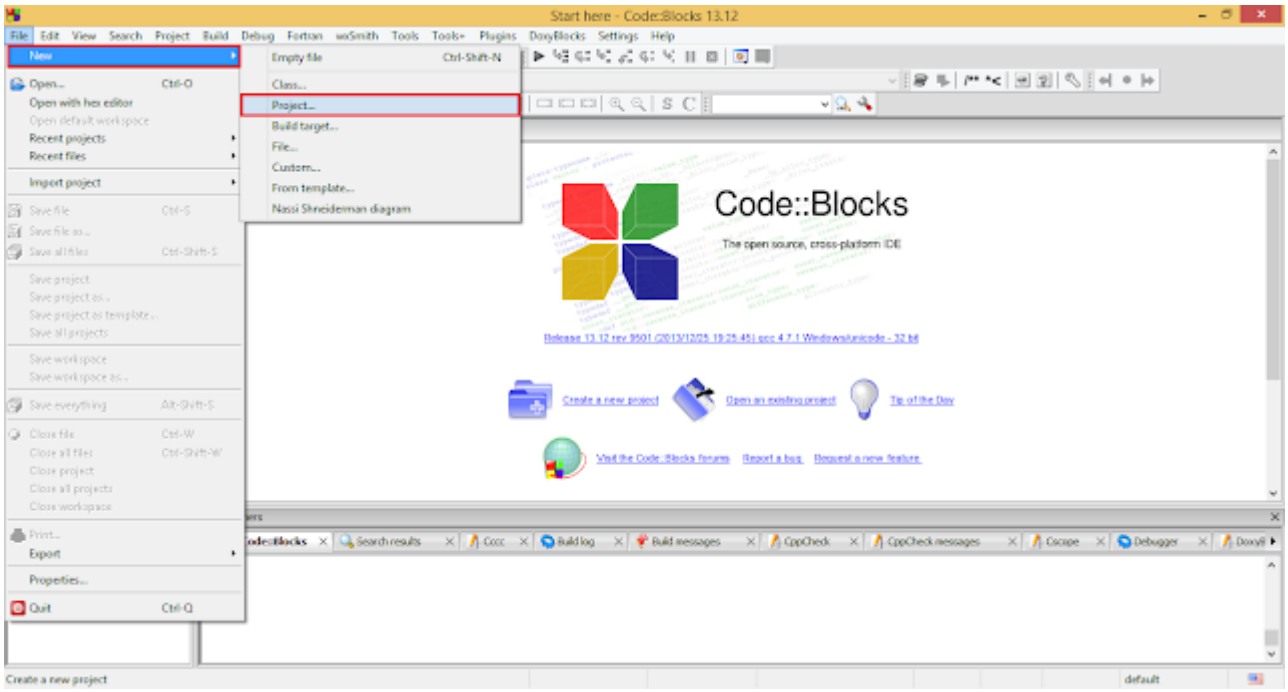
Before preceding you must have CodeBlocks with C/C++ compiler installed in your computer. If you don't have CodeBlocks installed download and install it before moving to the next step.

Step 1: Open CodeBlocks:

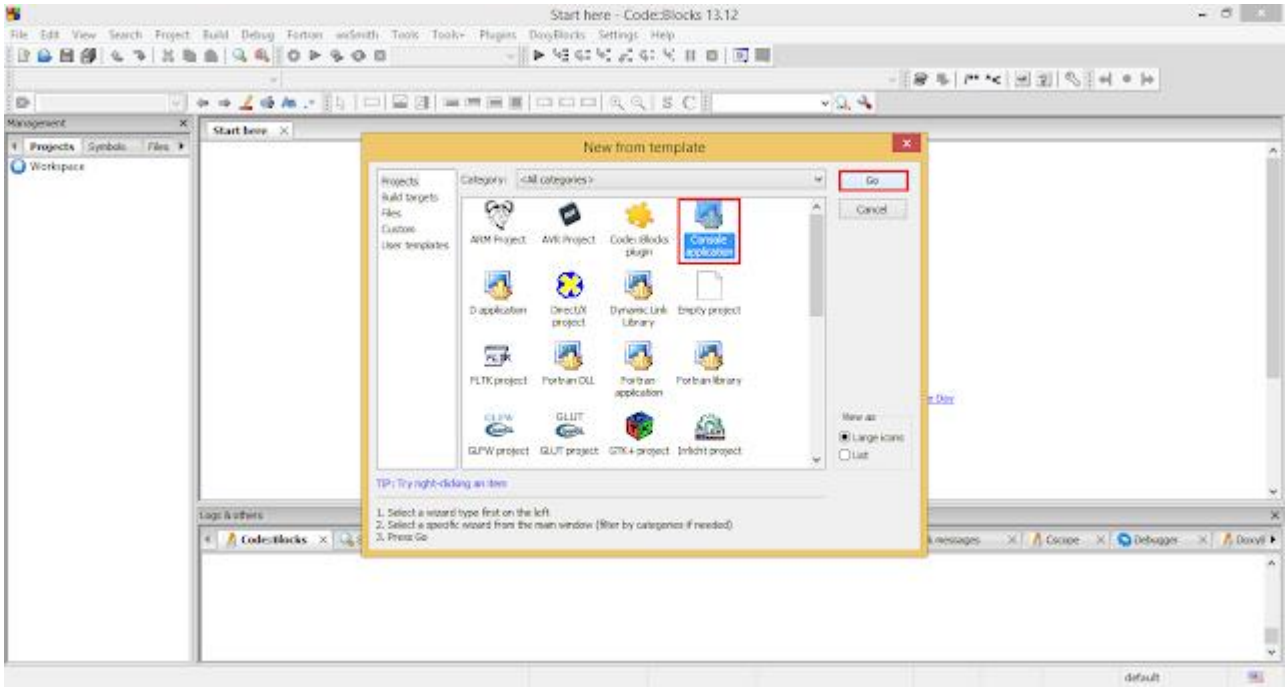


Creating new C/C++ projects

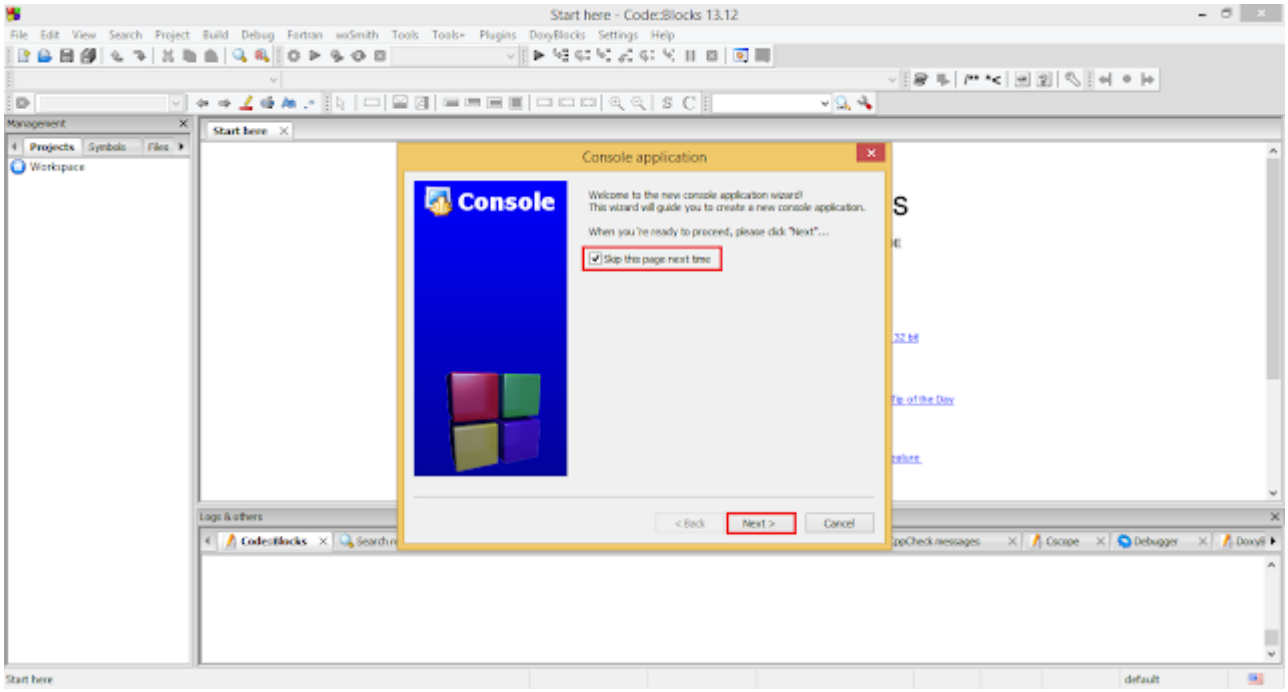
Step 2: Click on File → New → Project.



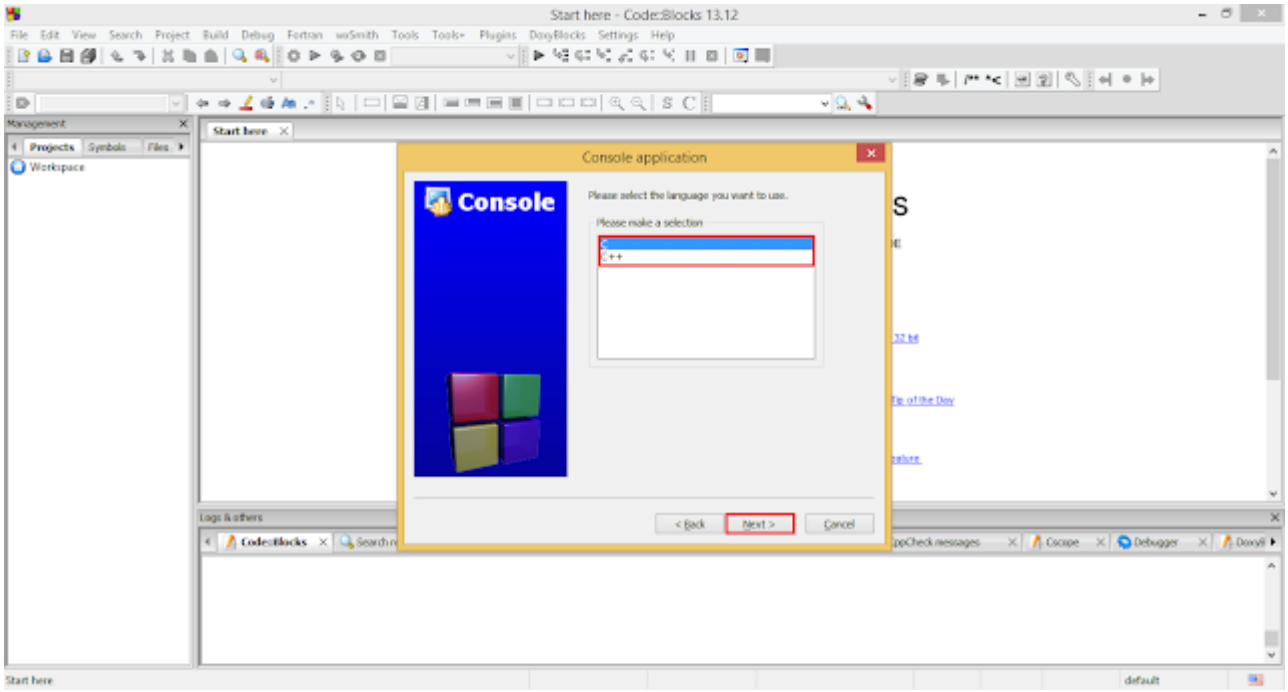
Step 3:Select **Console application** from the project category and then click on **Go** button.



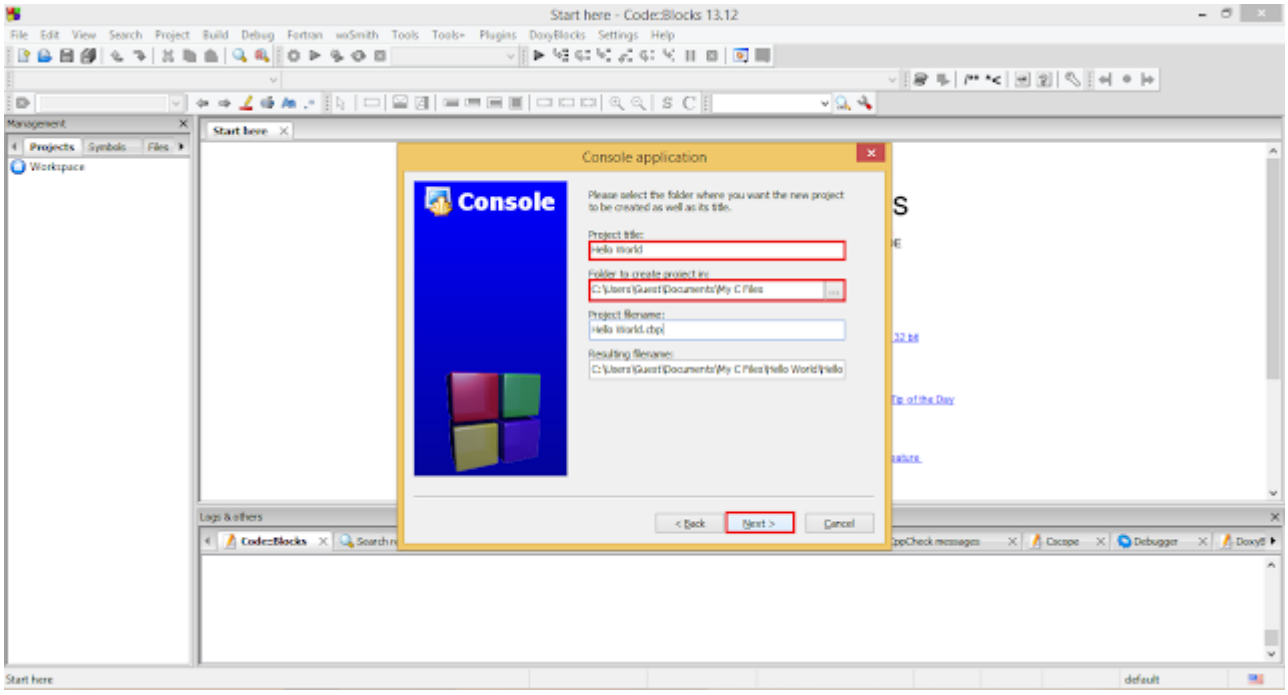
Step 4:On the Welcome message dialog box, check the **Skip this page next time** checkbox. And click on **Next** button.



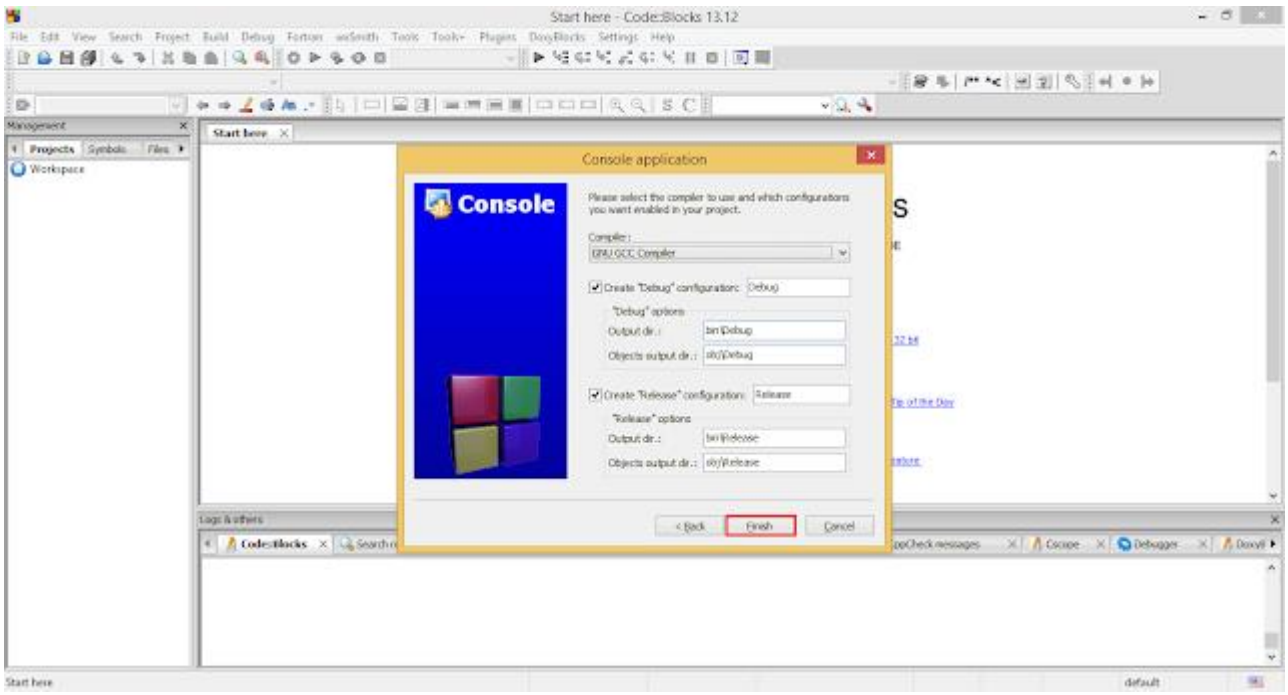
Step 5:On next screen the wizard ask you to choose the project type. Choose **C** if you want to create C project else choose **C++** if you want to create C++ project and click on **Next** button.



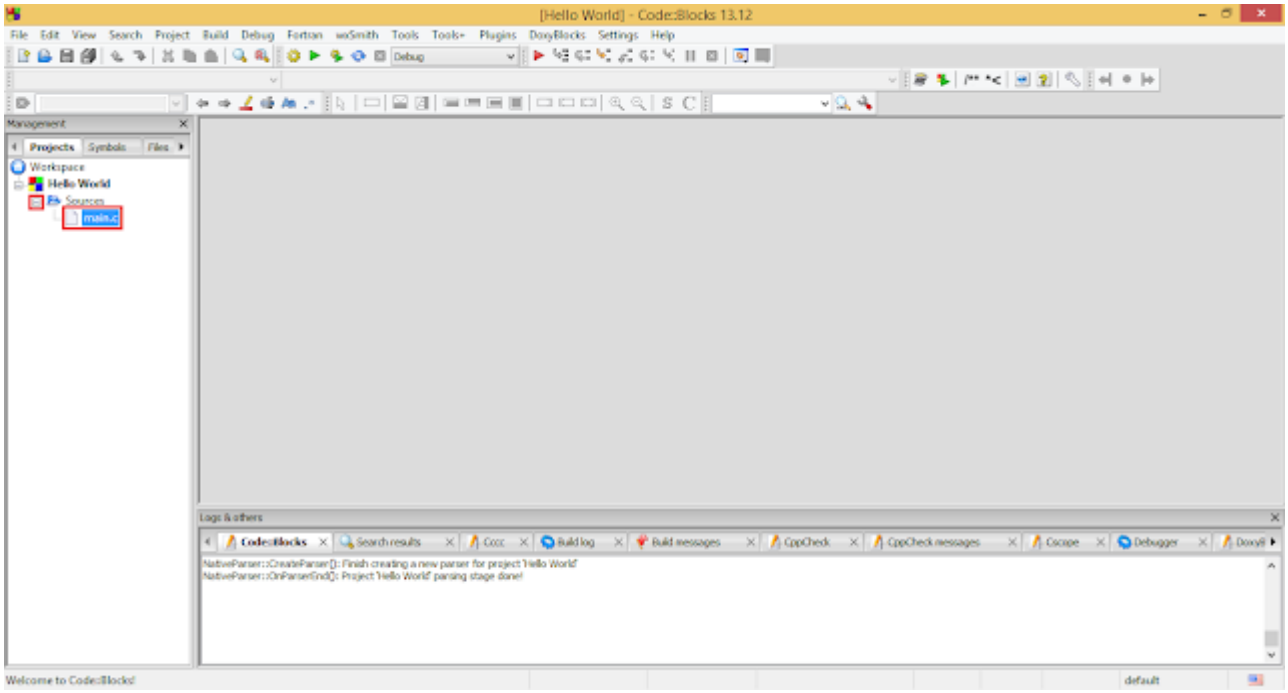
Step 6:Next wizard screen enter your **Project title and path where to store your project**. Enter any title of your project suppose Hello World. Choose the file path where you want to store your C files. For choosing file path click on … button. And click on **Next** button.



Step 7:The next screen asks you to choose C/C++ compiler. If you have installed GNU C/C++ compiler then you need not to perform any action on this screen simply click on **Finish** button. If you don't have GNU C/C++ compiler download it before preceding to next step.



Step 8:Congratulations you have created your first C/C++ project in Code::Blocks. But where do I write my first C/C++ program as no editor opens after last step. To open the code editor, navigate to the workspace area and click on **+** symbol present before Sources. That will expand the sources folder. Now double click on **main.cpp** file to open the code editor.

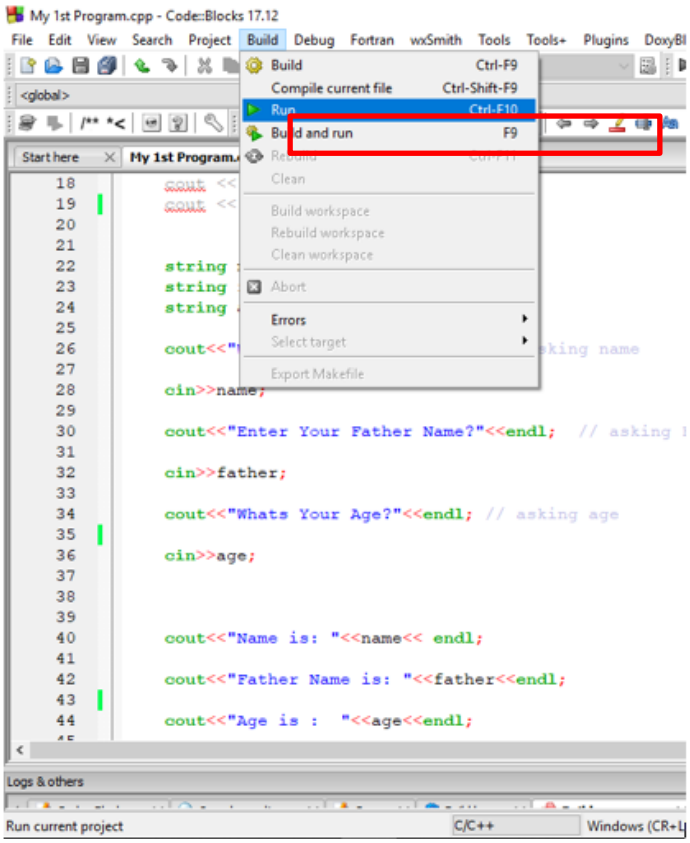


Step 9:Finally the code editor opens. Here you can edit you code, for saving your code just press **Ctrl+S**.

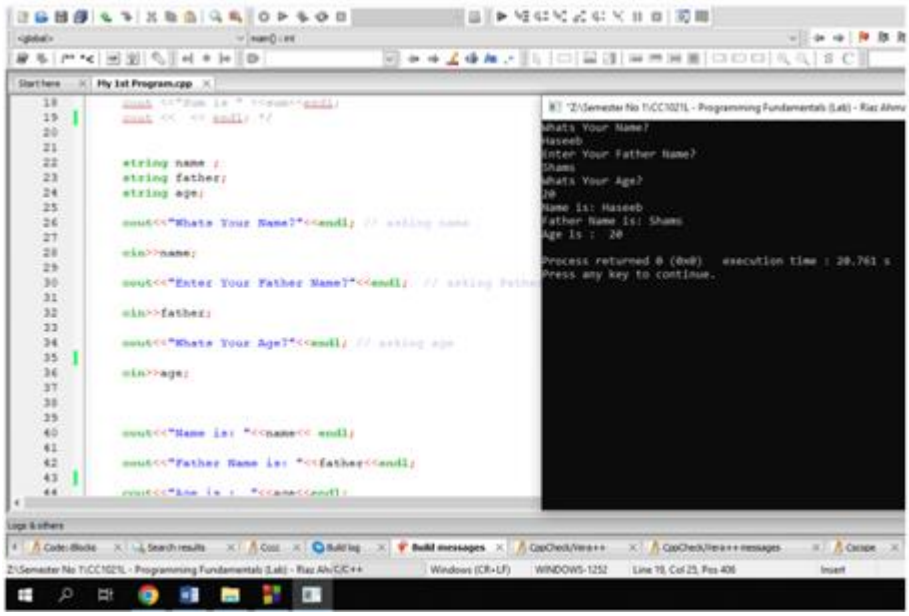
```
21
22      string name ;
23      string father;
24      string age;
25
26      cout<<"Whats Your Name?"<<endl; // asking name
27
28      cin>>name;
29
30      cout<<"Enter Your Father Name?"<<endl;  // asking Father name
31
32      cin>>father;
33
34      cout<<"Whats Your Age?"<<endl; // asking age
35
36      cin>>age;
37
38
39
40      cout<<"Name is: "<<name<< endl;
41
42      cout<<"Father Name is: "<<father<<endl;
43
44      cout<<"Age is :  "<<age<<endl;
```

Running your C/C++ program

Step 1:To run any C/C++ program click on Build → Build and run or simply hit **F9** from your keyboard.



Step 2:The output screen.



My 1st Project Source Code

```
#include <iostream>
#include <cmath>
#define PI 3.14159
using namespace std;

int main()
{
    double radius, volume;
    cout << "Enter the radius: ";
    cin >> radius;
    volume = 4.0 / 3.0 * PI * pow(radius, 3);
    cout << "The radius of the sphere is: " << radius
<< endl;
    cout << "The volume of the sphere is: " << volume
<< endl;
    return 0;
}
```

The End