

C++ dasturlash tili. Dasturlash muhitini sozlash



Reja:

- Dasturlash haqida
- Dasturlash tillari haqida
- C++ dasturlash tili
- GNU GCC kompilatorini o'rnatish
- Codeblocks ishchi muhitini o'rnatish
- Izohlar



Dastur nima?



Dastur







Kompyuter va boshqa axborot texnologiyalari qurilmalari uchun dastur tuzish jarayoni **dasturlash** deb ataladi.



Dasturlash tili – bu dasturchi va kompyuter o'rtasidagi muloqot vositasi hisoblanadi.







Dasturlash tillari 2 ta katta guruhlarga bo'linadi:

- Quyi darajali
- Yuqori darajali



Quyi darajadagi dasturlash tillari kompyuter qurilmalari bilan bevosita bogʻliq boʻlib, buyruqlar maxsus raqamlar (kodlar) yordamida yoziladi.



ENIAK - Birinchi EHM



Yuqori darajali dasturlash tillaridagi koʻrsatmalar inson tiliga yaqin boʻlgan soʻzlar majmuidan iborat.

Bu tilda tuzilgan dasturlarni **translyatorlar** deb nomlanuvchi maxsus dasturlar kompyuterlar bajara olishi uchun raqamli ko'rinishga o'tkazib beradi.



















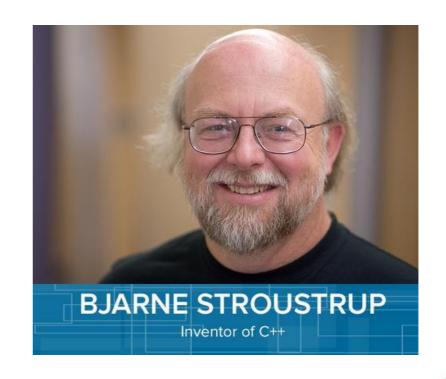




C++



C++ - bu C tilining
kengaytmasi sifatida
Bjarne Stroustrup
tomonidan ishlab
chiqilgan dasturlash
tili.

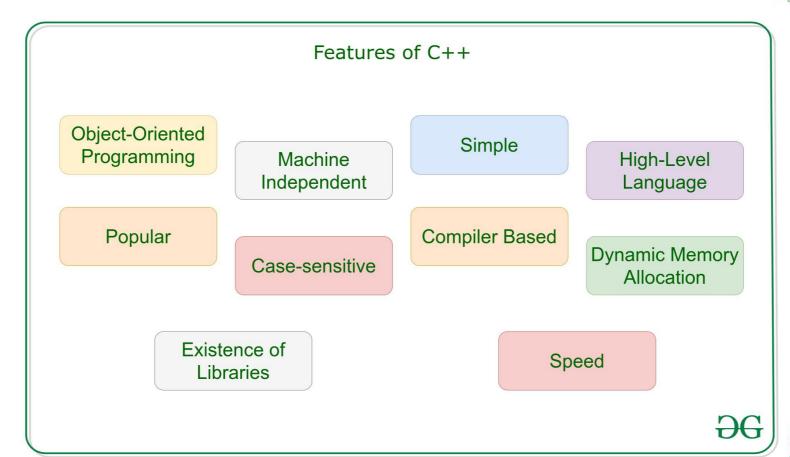




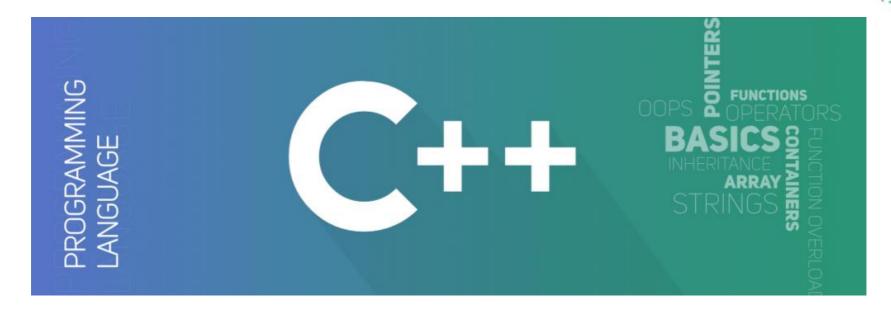
Summary Table of history of various C++ versions:

Version	Release Date	Major changes	
C++98 (ISO/IEC 14882:1998)	October 1998	The first version	
C++03 (ISO/IEC 14882:2003)	February 2003	Introduction of value initialization.	
C++11	August 2011	Introduction of Lambda Expressions, Delegating Constructors, Uniform Initialization Syntax, nullptr, Automati Type Deduction and decltype, Rvalue References etc.	С
C++14	August 2014	Introduction of polymorphic lambdas, digit separators, generalized lambda capture, variable templates, binar integer literals, quoted strings etc.	У
C++17	December 2017	Introduction of fold expressions, hexadecimal floating point literals, a u8 character literal, selection statements with initializer, inline variables etc.	
C++20	2020- 2021	Upcoming release	b
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C++ dasturchilarga tizim resurslari va xotirani yuqori darajada boshqarish imkoniyatini beradi.

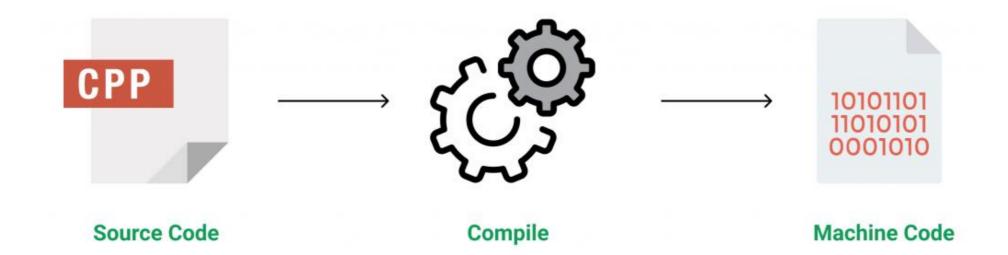


Compilator nima?



Compilator / interpretator - dastur kodini ikkilik kodga (mashina tiliga) aylantiradigan vosita (dasturiy ta'minot).

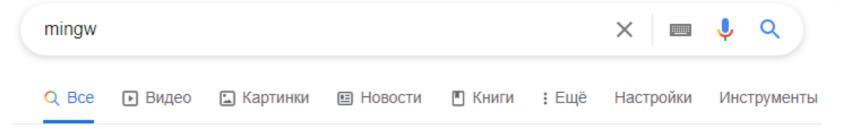






C++ ni install qilish





Результатов: примерно 2 760 000 (0,60 сек.)

https://sourceforge.net > projects ▼ Перевести эту страницу

MinGW - Minimalist GNU for Windows download ...

MinGW: A native Windows port of the GNU Compiler Collection (GCC), with freely distributable import libraries and header files for building native Windows applications; includes extensions to the MSVC runtime to support C99 functionality. All of **MinGW's** software will execute on the 64bit Windows platforms.

★★★★ Рейтинг: 4,1 · 156 голосов · Бесплатно · Windows · Инструменты и утилиты Browse /Installer · MinGW · Files · Mingw-get







MinGW Installation Manager Setup Tool

mingw-get version 0.6.2-beta-20131004-1



Written by Keith Marshall
Copyright © 2009-2013, MinGW.org Project
http://mingw.org

This is free software; see the product documentation or source code, for copying and redistribution conditions. There is NO WARRANTY; not even an implied WARRANTY OF MERCHANTABILITY, nor of FITNESS FOR ANY PARTICULAR PURPOSE.

This tool will guide you through the first time setup of the MinGW Installation Manager software (mingw-get) on your computer; additionally, it will offer you the opportunity to install some other common components of the MinGW software distribution.

After first time setup has been completed, you should invoke the MinGW Installation Manager directly, (either the CLI mingw-get.exe variant, or its GUI counterpart, according to your preference), when you wish to add or to remove components, or to upgrade your MinGW software installation.

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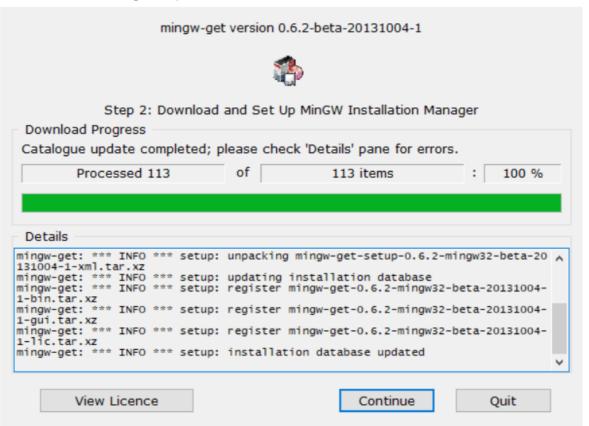
MinGW Installation Manager Setup Tool mingw-get version 0.6.2-beta-20131004-1 Step 1: Specify Installation Preferences Installation Directory C:\MinGW Change If you elect to change this, you are advised to avoid any choice of directory which includes white space within the absolute representation of its path name. User Interface Options Both command line and graphical options are available. The command line interface is always supported; the alternative only if you choose the following option to ... Program shortcuts for launching the graphical user interface should be installed just for me (the current user), or for all users * ... ☑ ... in the start menu, and/or ... ☑ ... on the desktop. selection of this option requires administrative privilege. View Licence Continue Cancel



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MinGW Installation Manager Setup Tool





Installation Package Settings						Help
Basic Setup All Packages	Package	Class	Installed Version	Repository Version	Description	
All Packages	mingw-developer-toolkit	bin		2013072300	An MSYS Installation for MinGW Developers (meta)	
	mingw32-base	bin		2013072200	A Basic MinGW Installation	
	mingw32-gcc-ada	bin		6.3.0-1	The GNU Ada Compiler	
	mingw32-gcc-fortran	bin		6.3.0-1	The GNU FORTRAN Compiler	
	mingw32-gcc-g++	bin		6.3.0-1	The GNU C++ Compiler	
	mingw32-gcc-objc	bin		6.3.0-1	The GNU Objective-C Compiler	
	msys-base	bin		2013072300	A Basic MSYS Installation (meta)	
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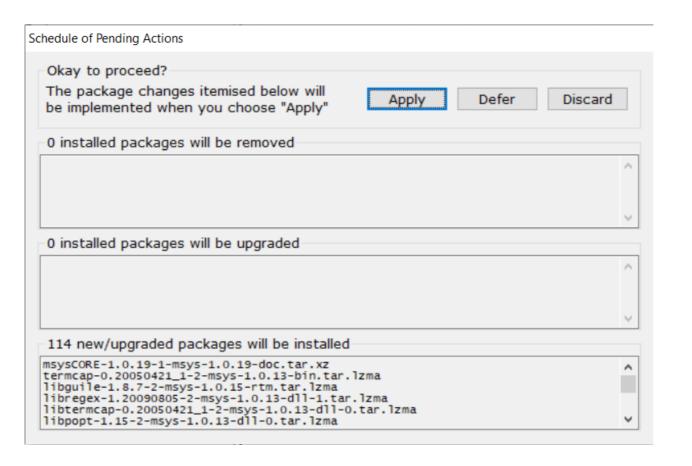


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		mingw32-gcc-objc	bin		6.3.0-1	The GNU Objective-C Compiler	
		msys-base	bin		2013072300	A Basic MSYS Installation (meta)	
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Download Package			
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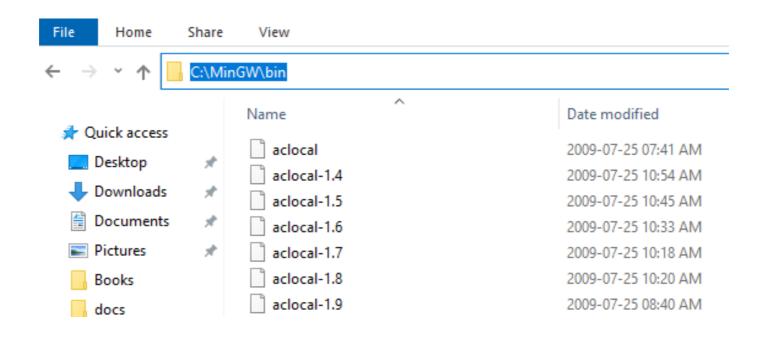


All changes were applied successfully; you may now close this dialog	
Close dialogue automatically, when activity is complete.	Close
Details	
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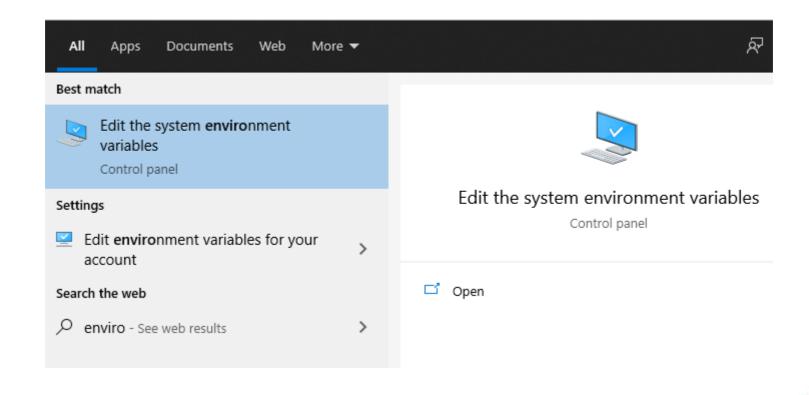


ic Setup	Package	Class	Installed Version	Repository Version	Description	
Packages	mingw-developer-toolkit		111	2013072300	An MSYS Installation for MinGW Developers (meta)	
	mingw32-base	bin		2013072200	A Basic MinGW Installation	
	mingw32-gcc-ada	bin		6.3.0-1	The GNU Ada Compiler	
	mingw32-gcc-fortran	bin		6.3.0-1	The GNU FORTRAN Compiler	
	mingw32-gcc-g++	bin	6.3.0-1	6.3.0-1	The GNU C++ Compiler	
	mingw32-gcc-objc	bin	1.525.55×5×	6.3.0-1	The GNU Objective-C Compiler	
	msys-base	bin		2013072300	A Basic MSYS Installation (meta)	
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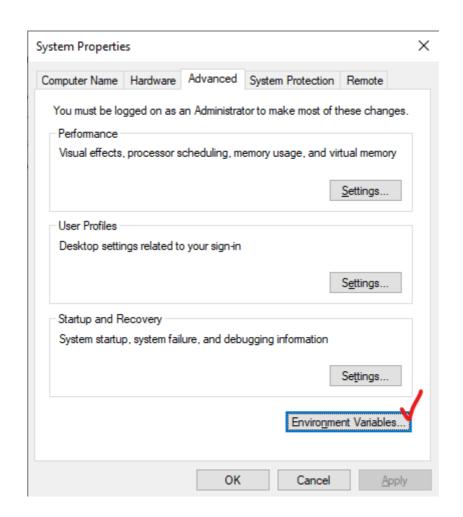




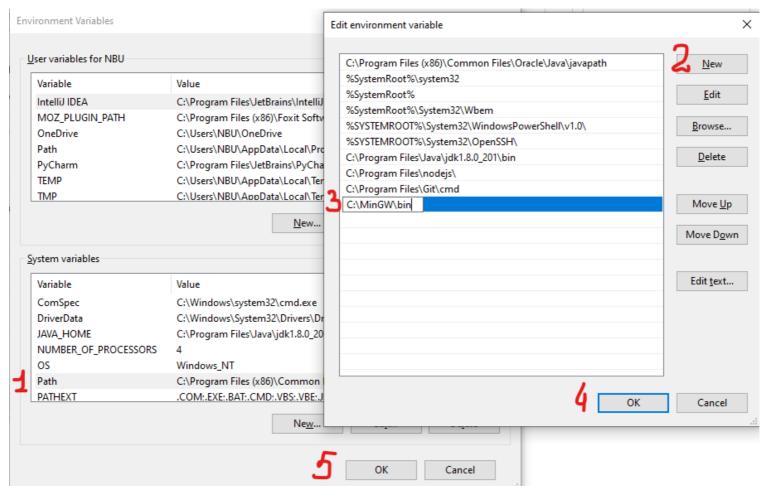














g++ --version

Administrator: Command Prompt

Microsoft Windows [Version 10.0.19041.985] (c) Microsoft Corporation. All rights reserved.

C:\Users\NBU>g++ --version
g++ (MinGW.org GCC-6.3.0-1) 6.3.0
Copyright (C) 2016 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

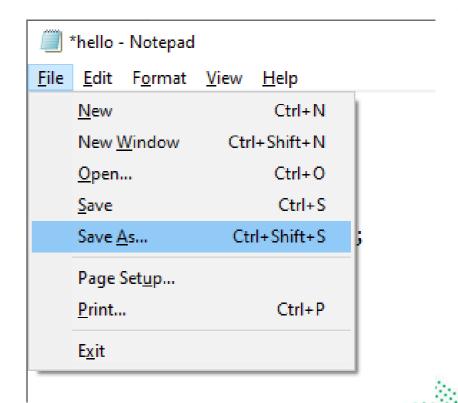




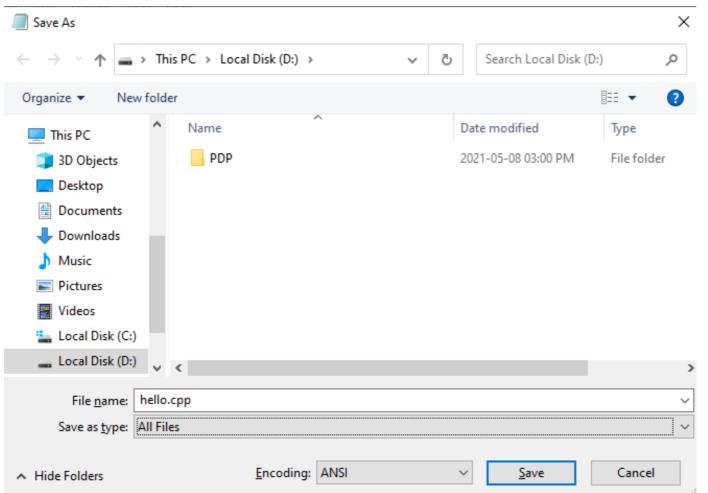
Birinchi C++ dasturimizni yozamiz



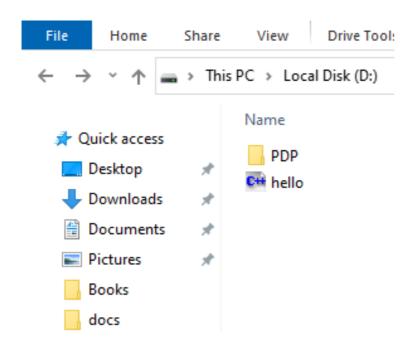
```
#hello - Notepad
File Edit Format View Help
#include<iostream>
using namespace std;
int main(){
        cout<<"Hello World!";
        return 0;
}</pre>
```

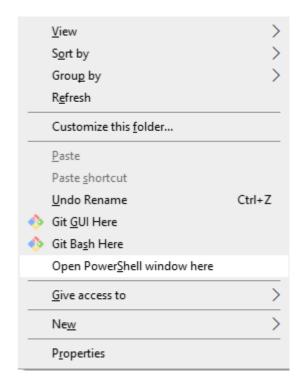






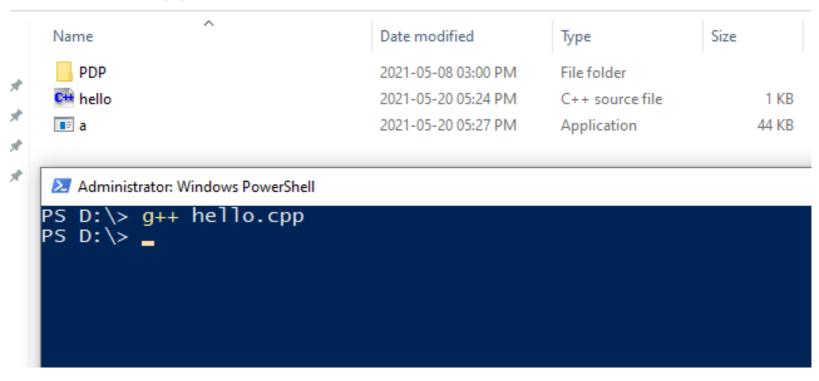












Bu yerda: a faylni ishga tushiramiz.



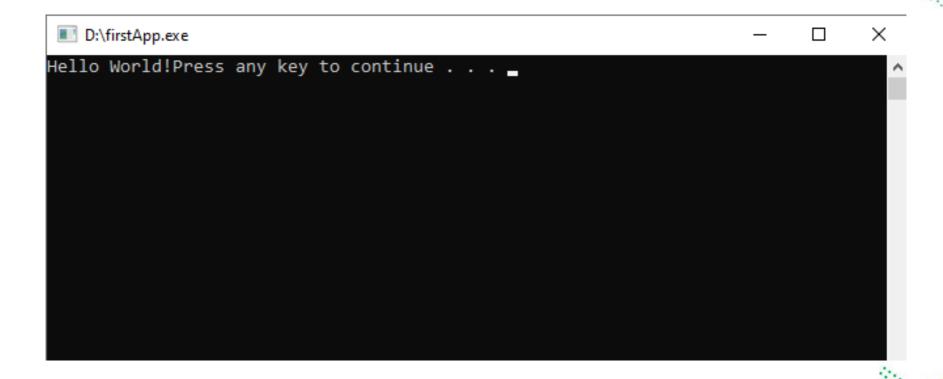
```
hello - Notepad
<u>File Edit Format View Help</u>
#include<iostream>
#include<stdlib.h>
using namespace std;
int main(){
         cout<<"Hello World!";
         system("pause");
         return 0;
```



This PC > Local Disk (D:) >

PDP	2021-05-08 03:00 PM	File folder	
cii hello2	2021-05-20 05:32 PM	C++ source file	1 KE
C++ hello	2021-05-20 05:32 PM	C++ source file	1 KE
■ a	2021-05-20 05:34 PM	Application	44 KE
■ firstApp	2021-05-20 05:35 PM	Application	44 KE
Administrator: Windows			
PS D:\> g++ hell	o2.cpp -o firstApp		
P5 D: \>			
PS D:\> _			









Tabriklaymiz! Siz birinchi C++ dasturingizni yozdingiz.



IDE nima?



IDE (*Integrated development environment*) - integratsiyalashgan rivojlanish muhiti, dasturiy ta'minotni yaratish uchun ishlatiladigan dasturdir.



Dev C++, Code::Blocks, Visual Studio, C free lar C++ dasturlash tili uchun IDE lar hisoblanadi.



IDE ni o'rnatish

https://www.codeblocks.org ▼

Code::Blocks

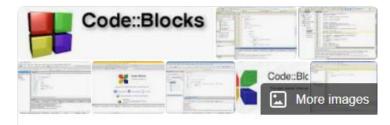
The free C/C++ and Fortran IDE. Code::Blocks is a free C/C++ and Fortran IDE built to meet the most demanding needs of its users. It is designed to be very ...

Binary releases

Windows XP / Vista / 7 / 8.x / 10; Linux 32 and 64-bit; Mac OS X.

Source code

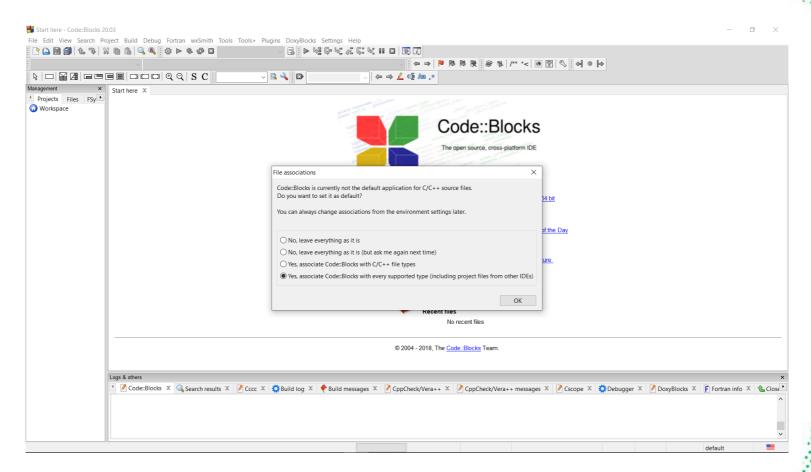
If you want to download the source code of Code::Blocks 20.03 ...



Code::Blocks



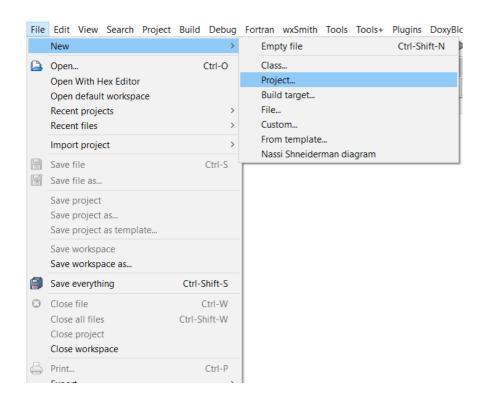


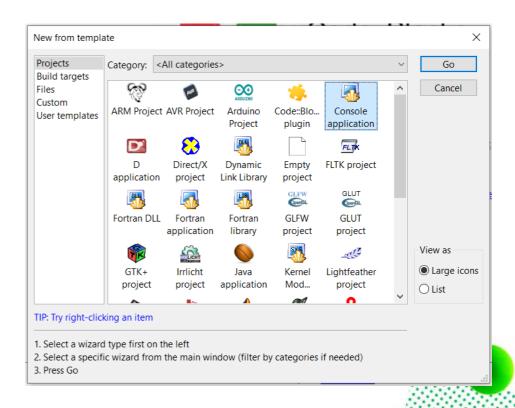




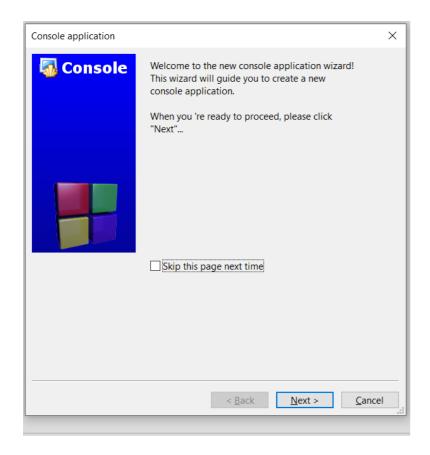
New Project Console application

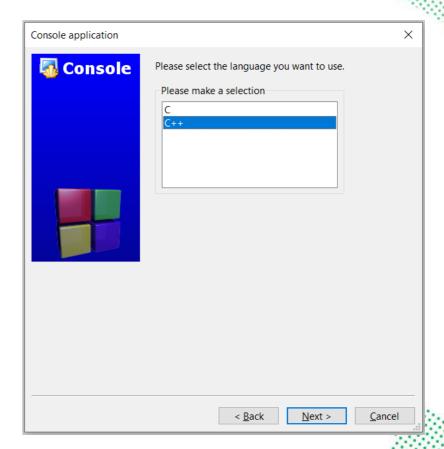
File > New > Project...



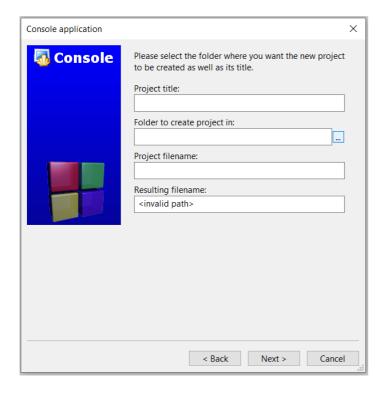


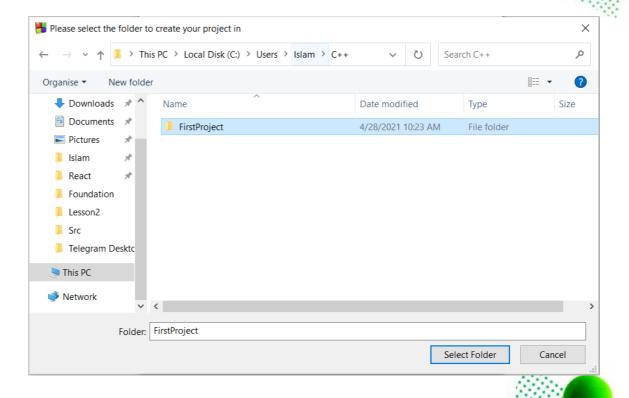














Basic syntax

Build > Build and Run

```
main.cpp X
           #include <iostream>
           using namespace std;
      5
            int main()
                cout << "Hello world!" << endl;</pre>
                return 0;
     10
```



Result

C:\Users\Islam\C++\FirstProject\lesson1\bin\Debug\lesson1.exe

Hello world!

Process returned 0 (0x0) execution time : 0.009 s Press any key to continue.



C++ Comments (izohlar)

Commentlar - C++ kodini tushuntirish uchun foydalaniladi. Commentlar bir qatorli yoki ko'p qatorli bo'lishi mumkin.

Comments // Single line comment /* Multi-line comment */



Bir qatorli commentlar ikkita slash (kesma)lar bilan boshlanadi (//).

// va satr oxiri orasidagi har qanday matn kompilyator
tomonidan e'tiborga olinmaydi (bajarilmaydi).

```
int main()
{
    //Bu comment
    cout << "Hello world!" << endl;
    return 0;
}</pre>
```



Ko'p qatorli commentlar /* bilan boshlanadi va */ bilan tugaydi.

/* va */ orasidagi har qanday matn kompilyator tomonidan
e'tiborga olinmaydi:

```
int main()

{
    /*Dasturlashni
    pdp.uz da o`rganing!*/
    cout << "Hello world!" << endl;
    return 0;
}</pre>
```



E`tiboringiz uchun rahmat!