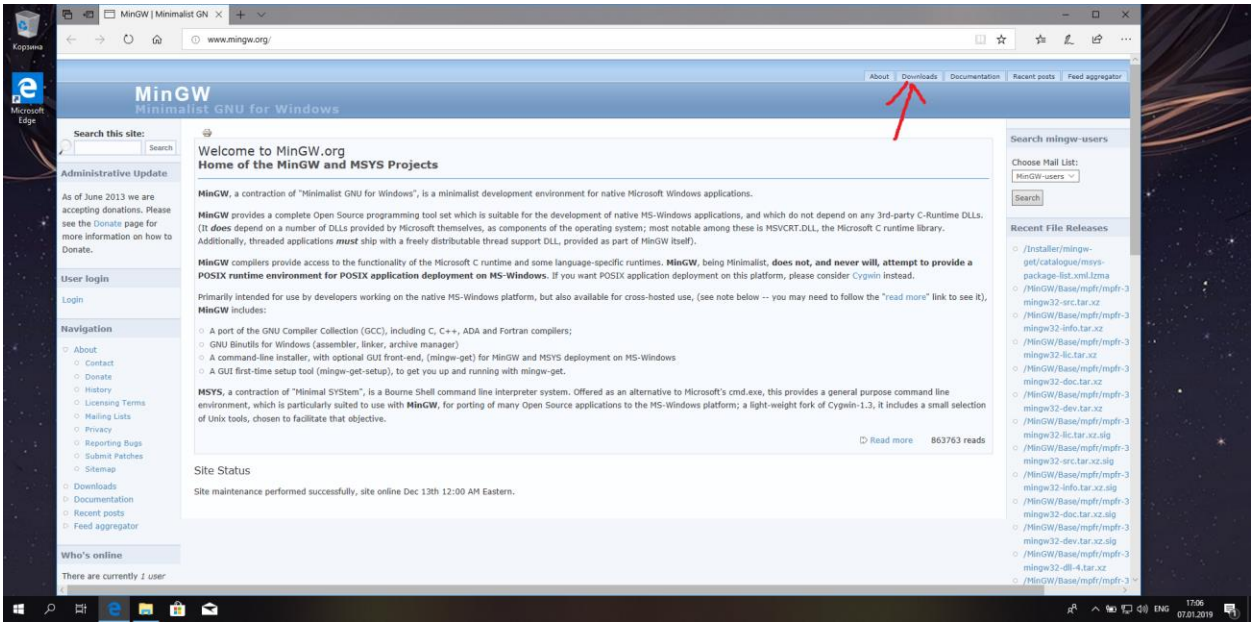
GUIDE

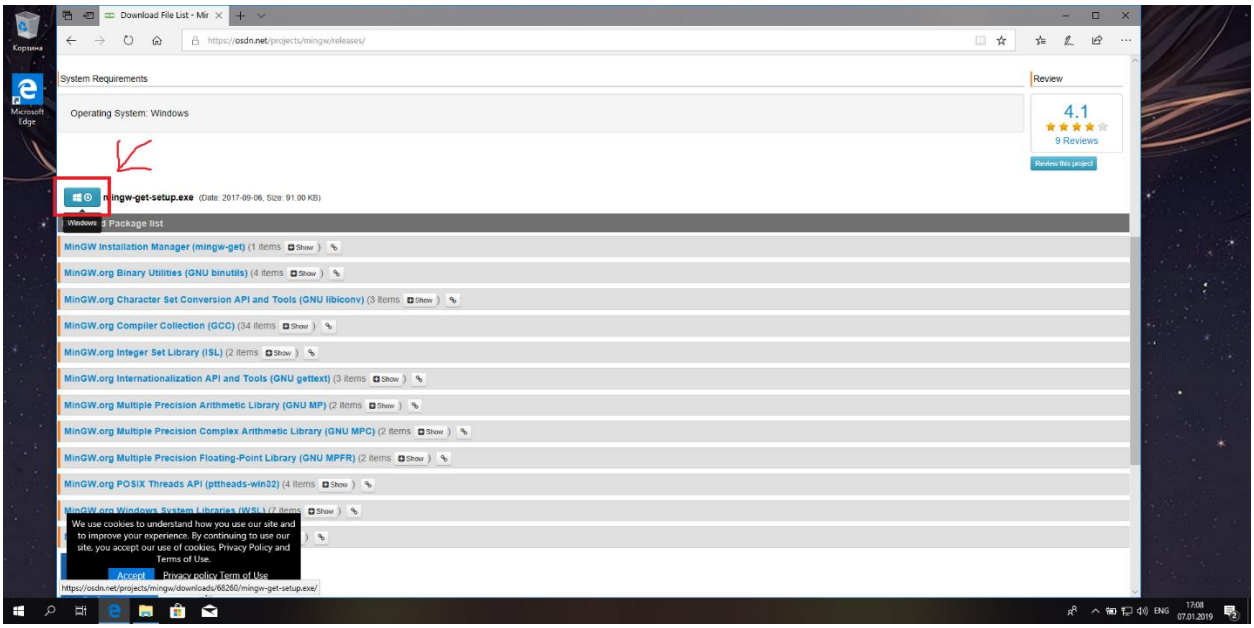
Development tools for Windows(10) installation

C\C++ compiler and CMake installation

Mingw download

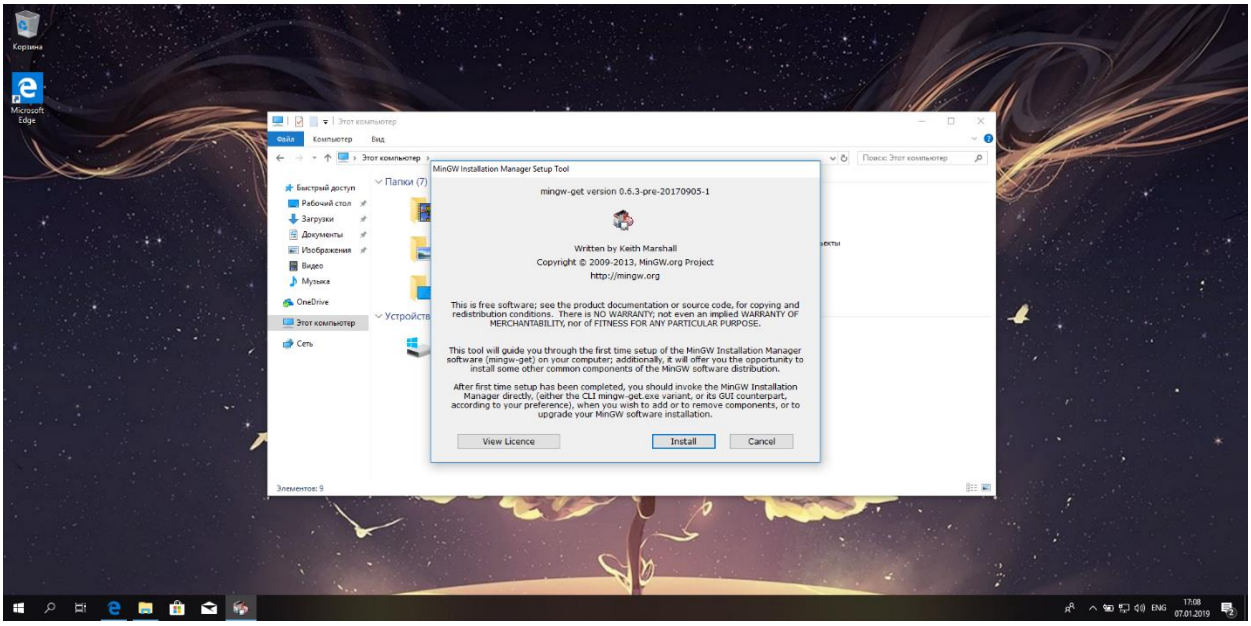
http://mingw.org/



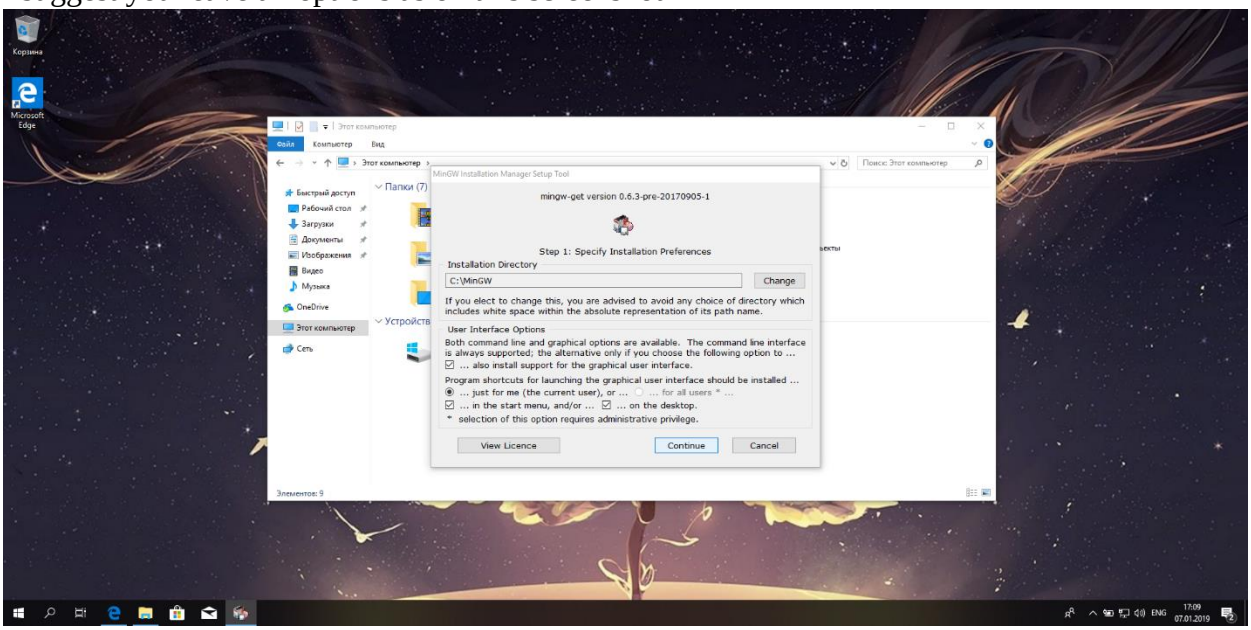


Mingw installation

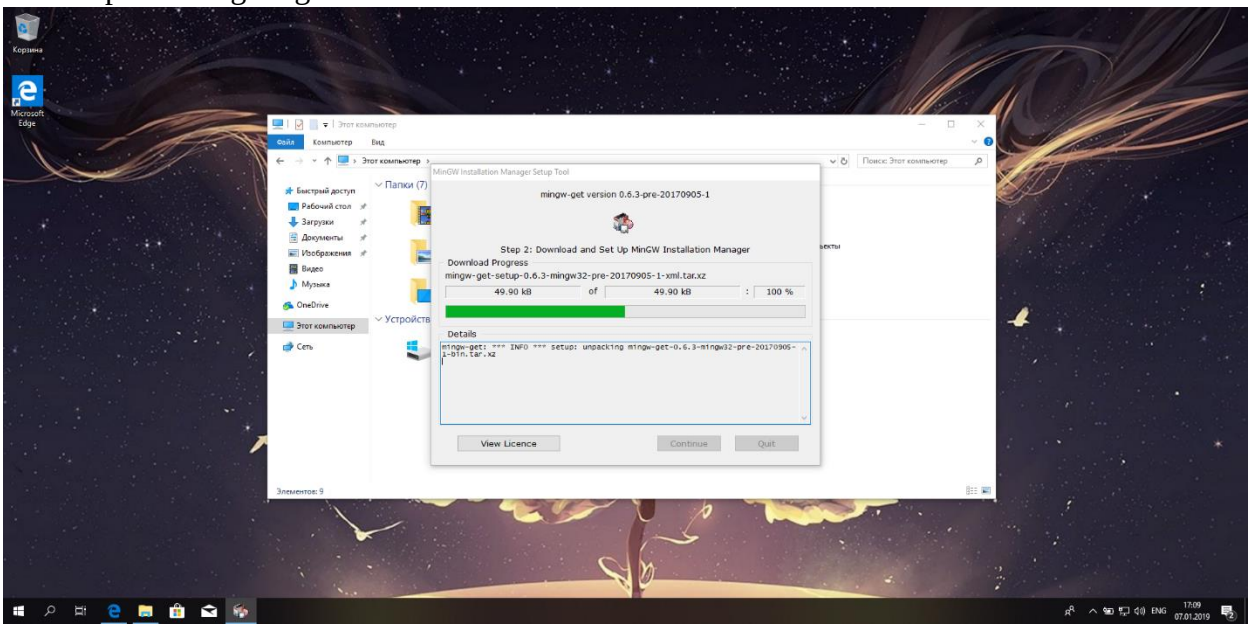
Click install



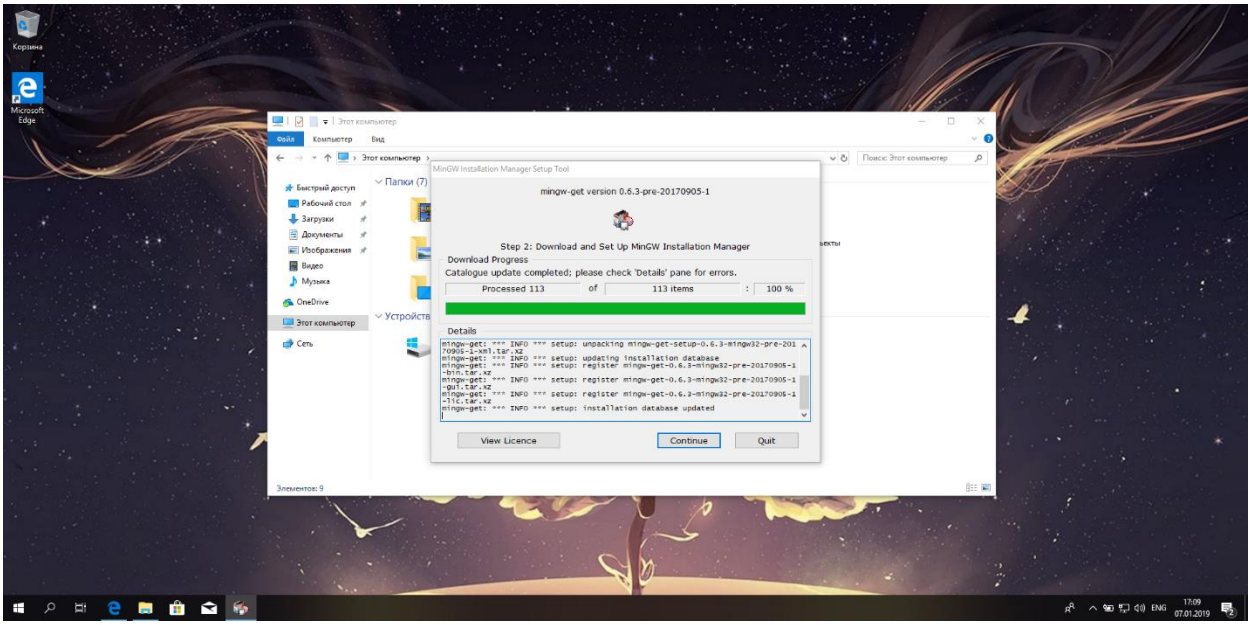
I suggest you leave all options as on this screenshot



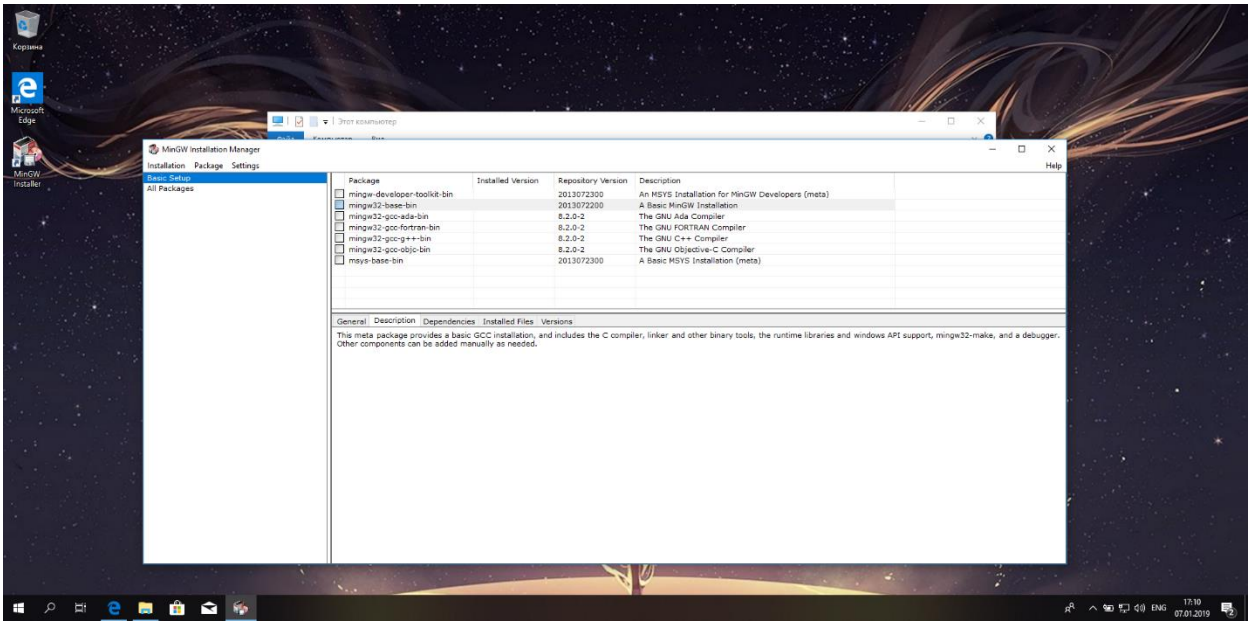
Just keep watching on green bar

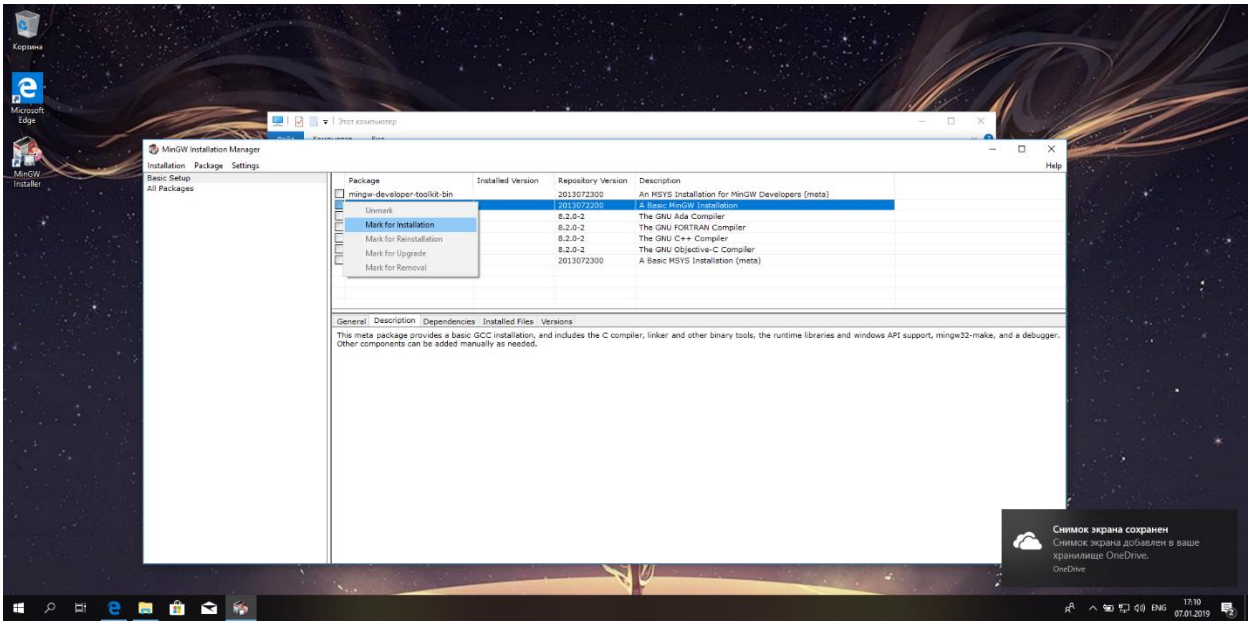


Click Continue

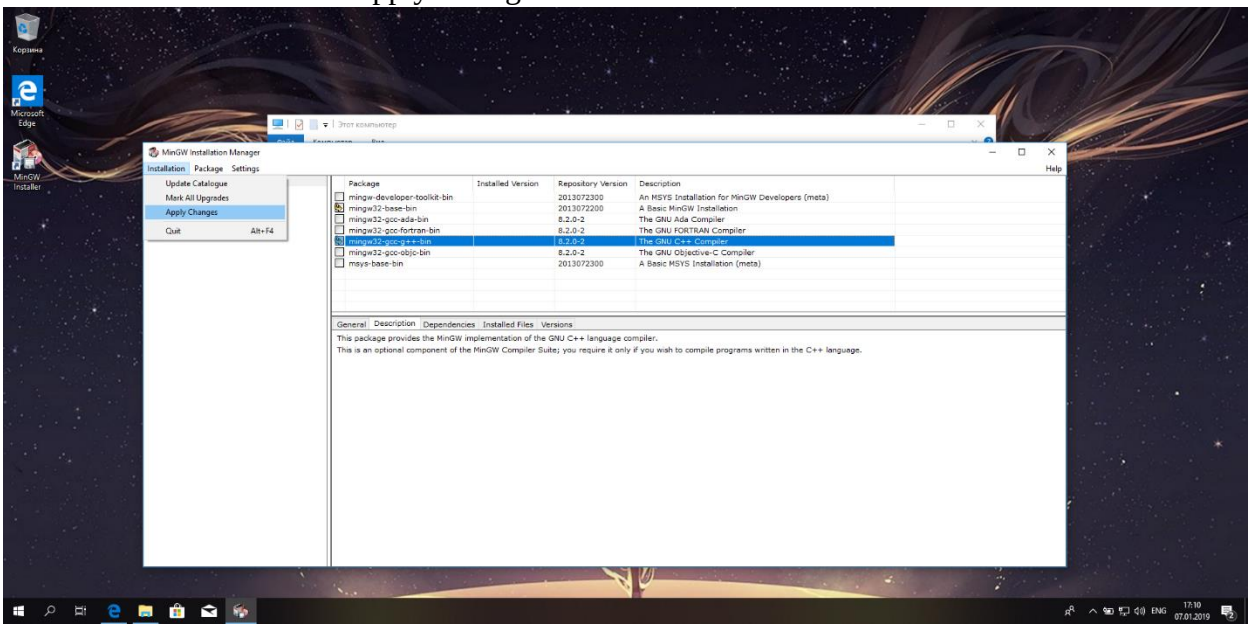


Then you'll see this window. We need to install only mingw32-base-bin and mingw32-gcc-g++-bin

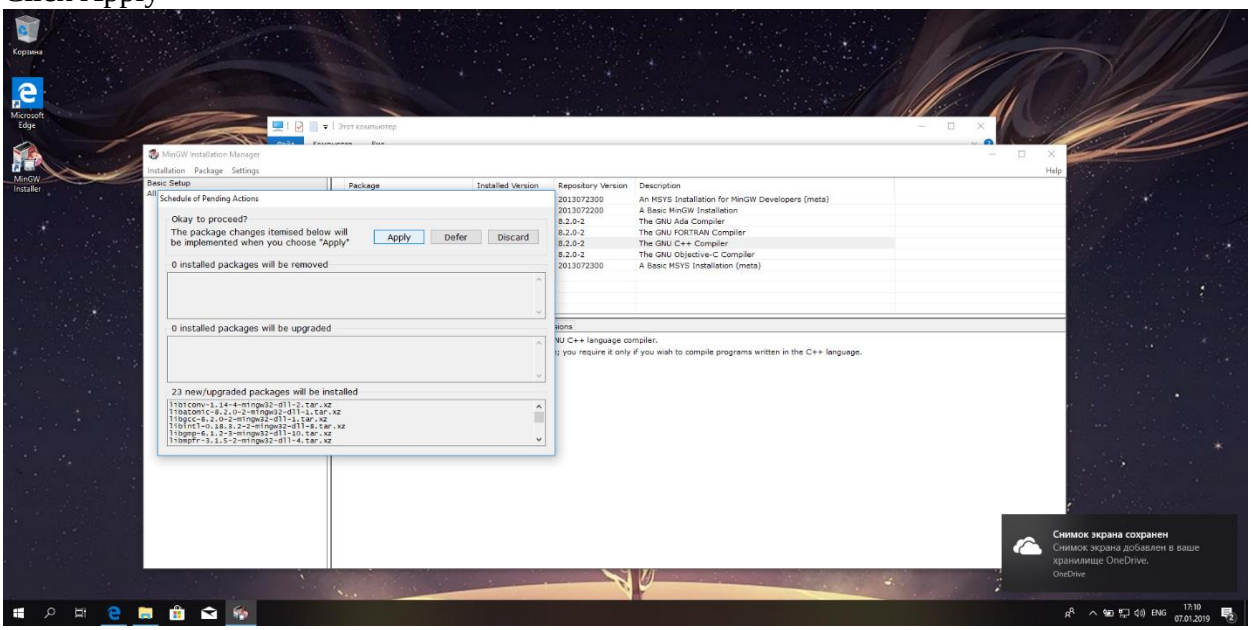




Click Installation and then Apply Changes

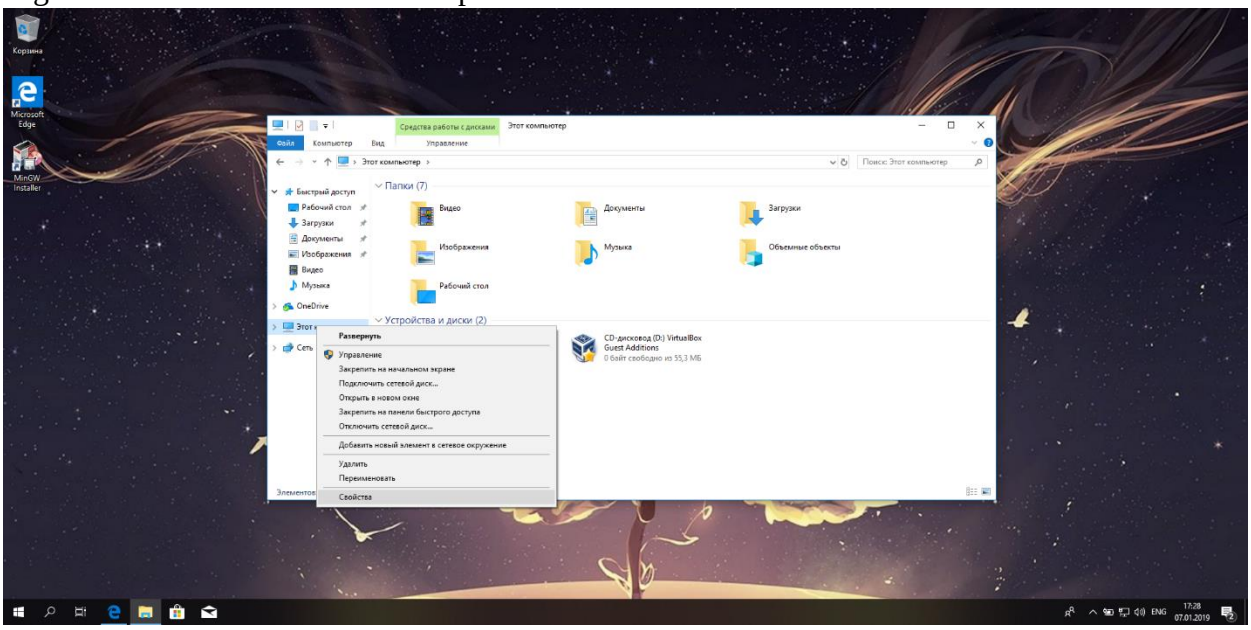


Click Apply

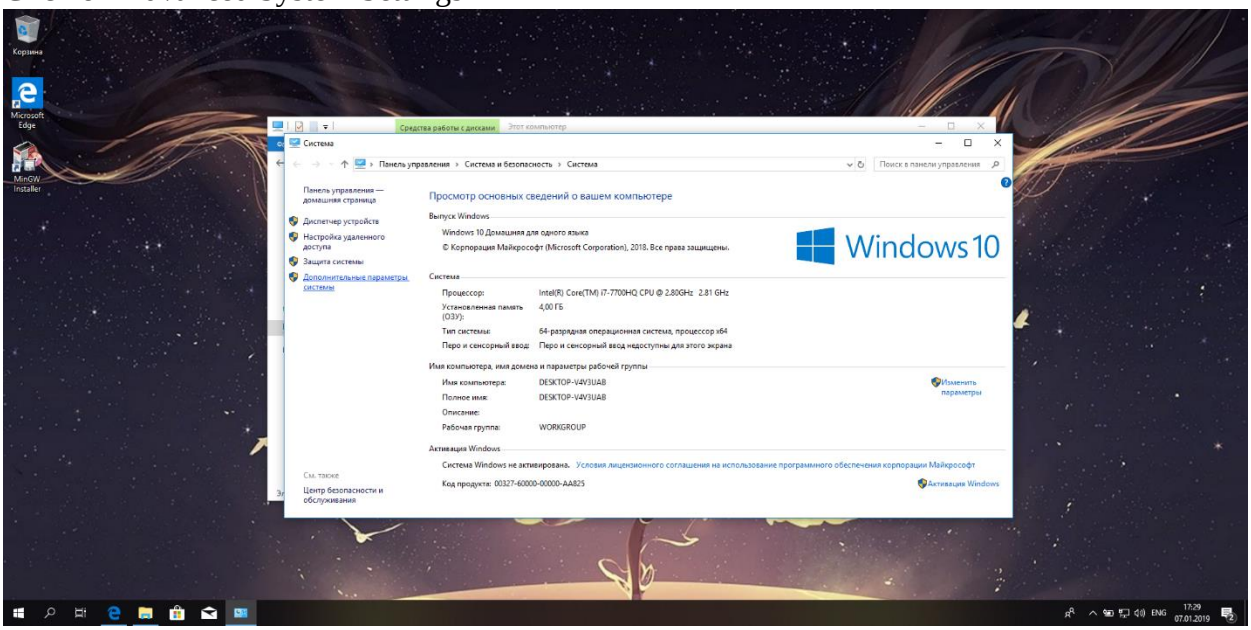


Adding Mingw compilers' folder to PATH variable

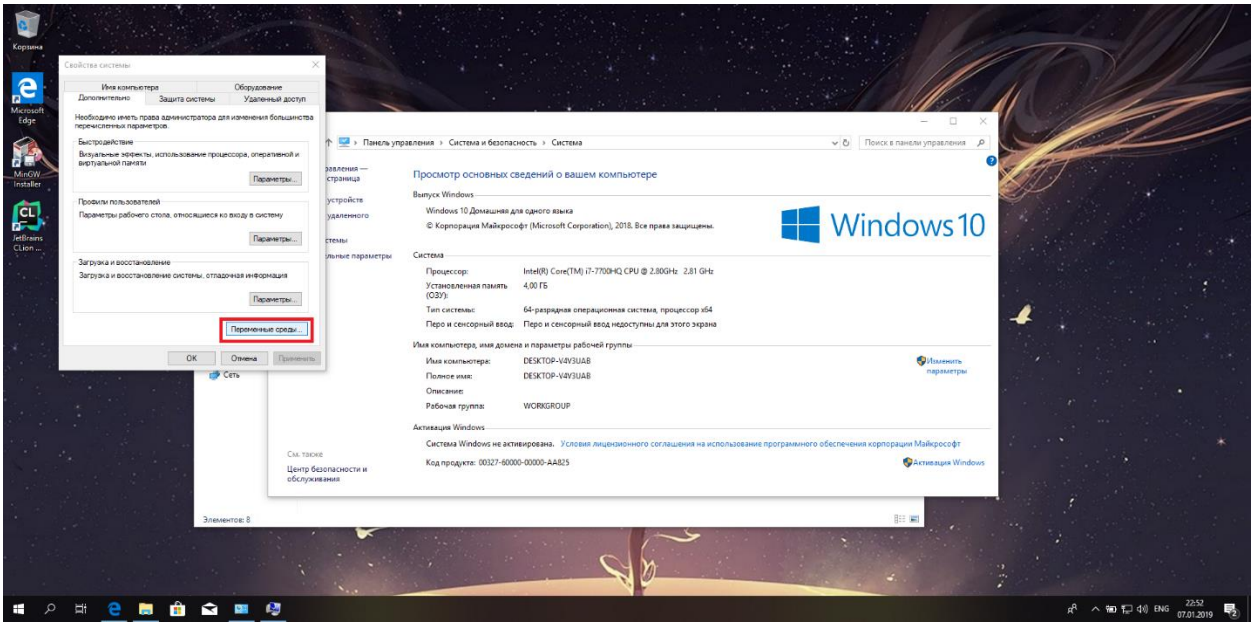
Rightclick on This PC and then Properties



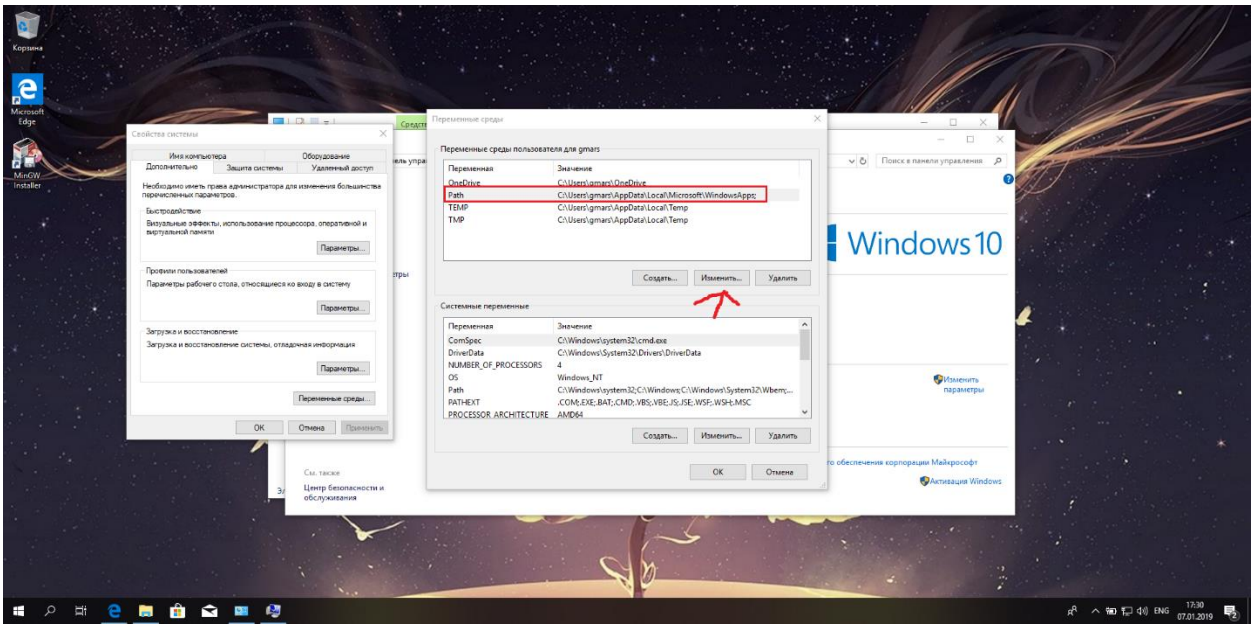
Click on Advanced System Settings



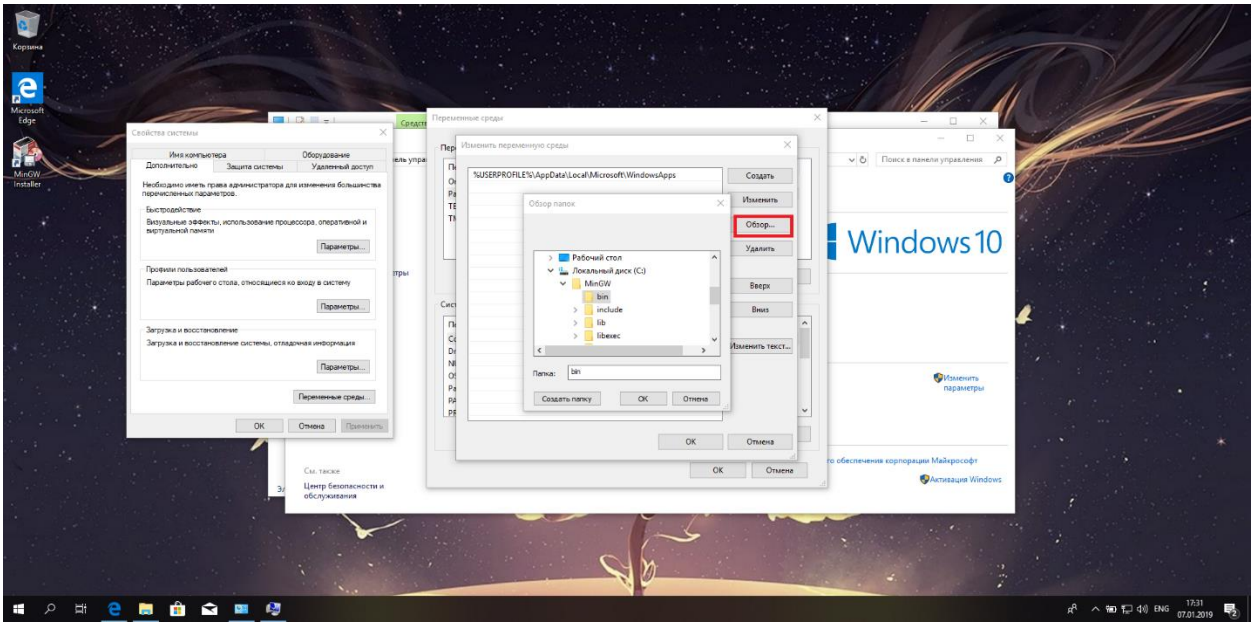
Click on Environment Variables



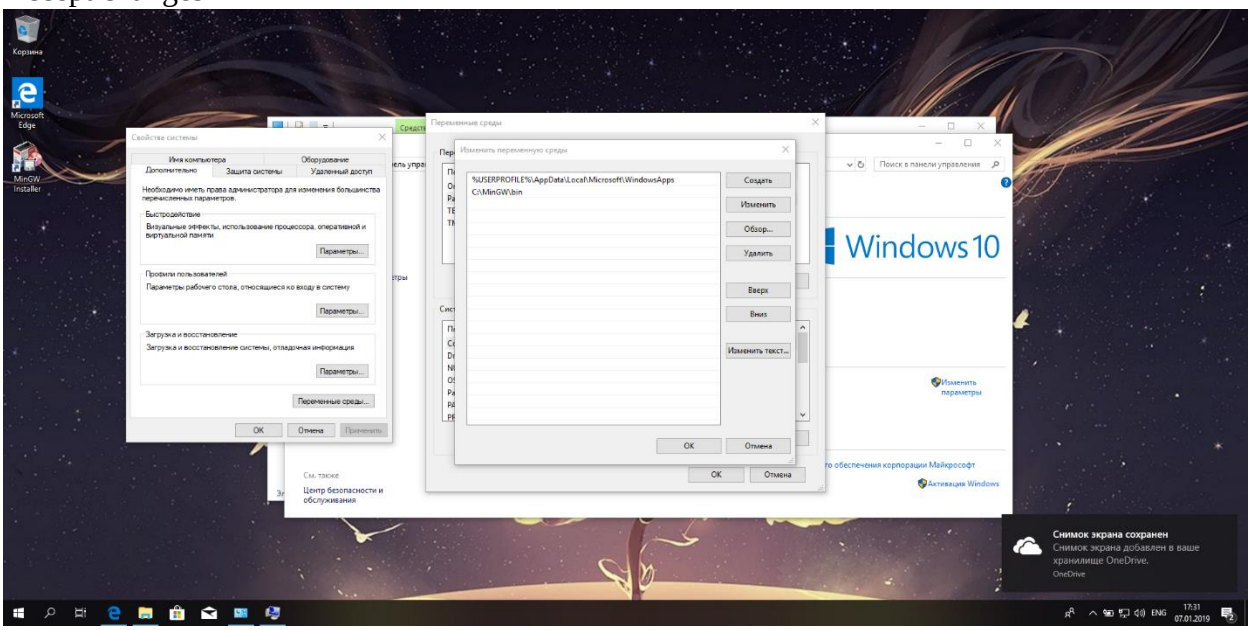
Choose PATH variable and click Edit



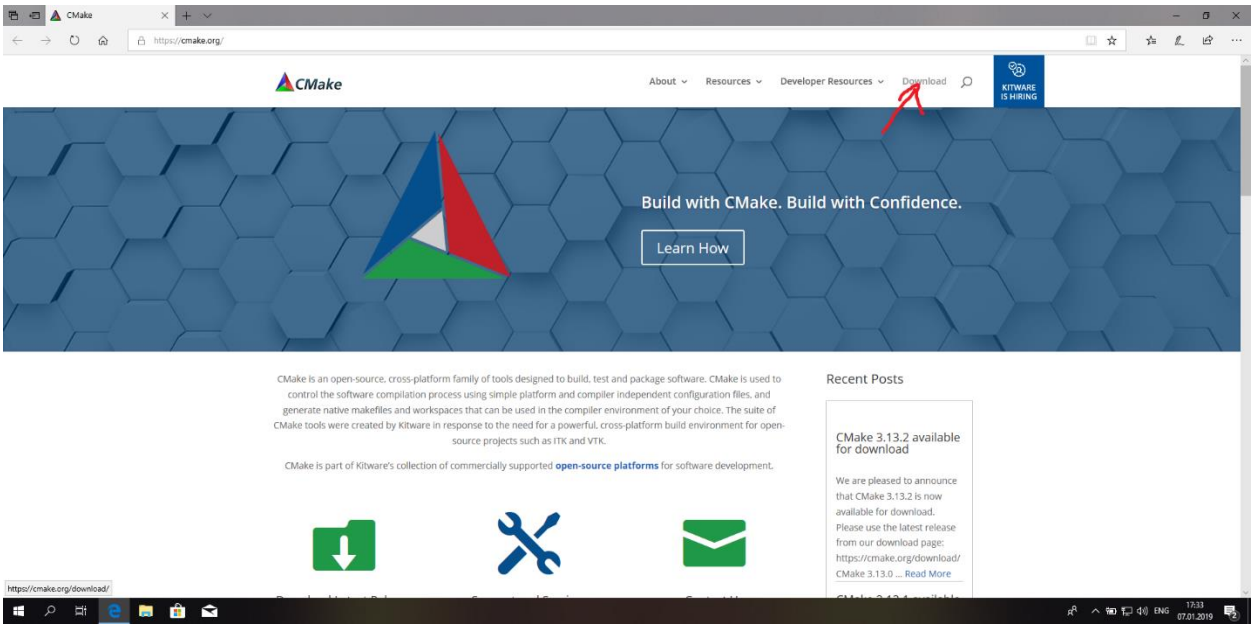
Click Browse and choose MinGW\bin folder

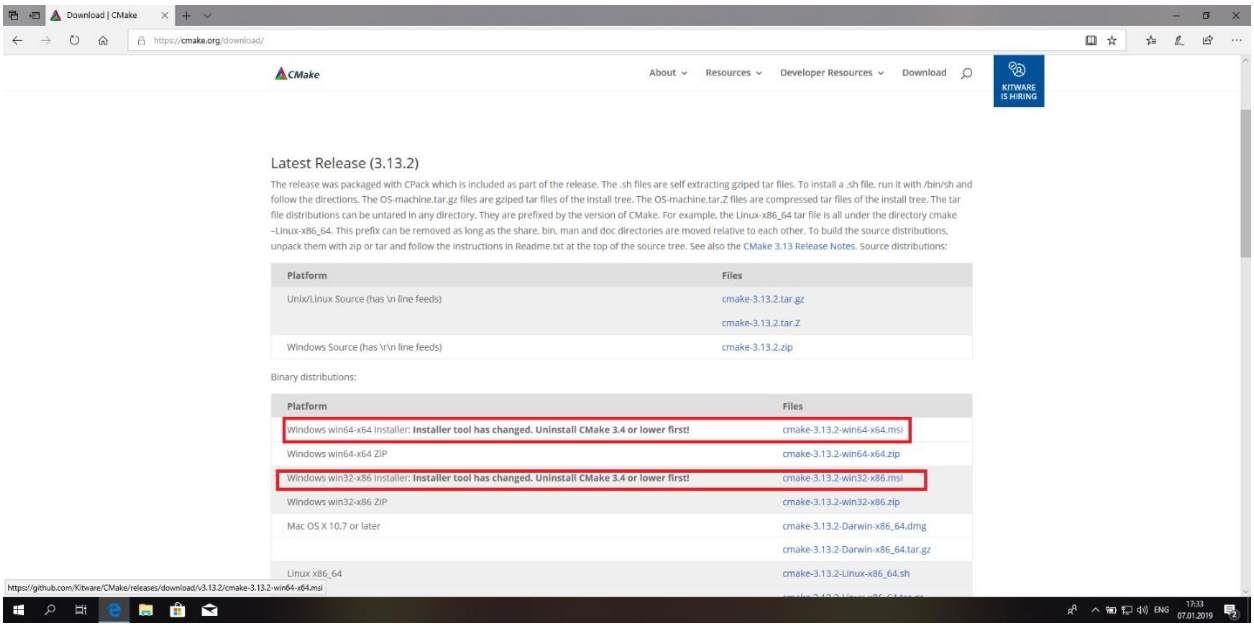


Accept changes



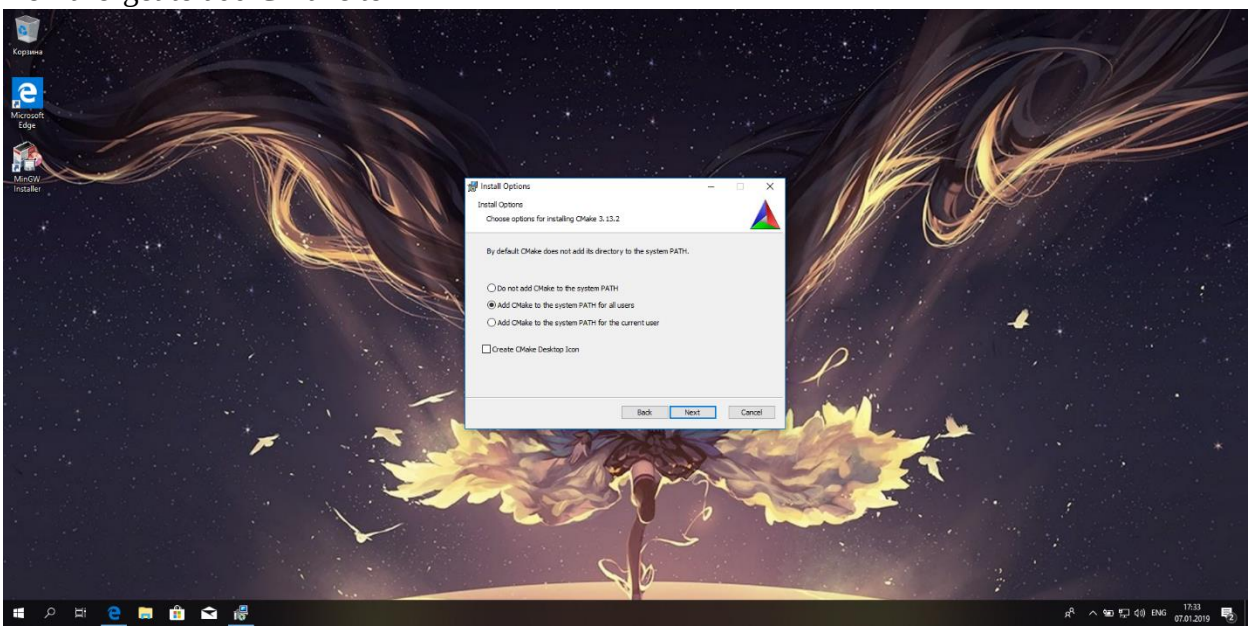
CMake download





CMake installation

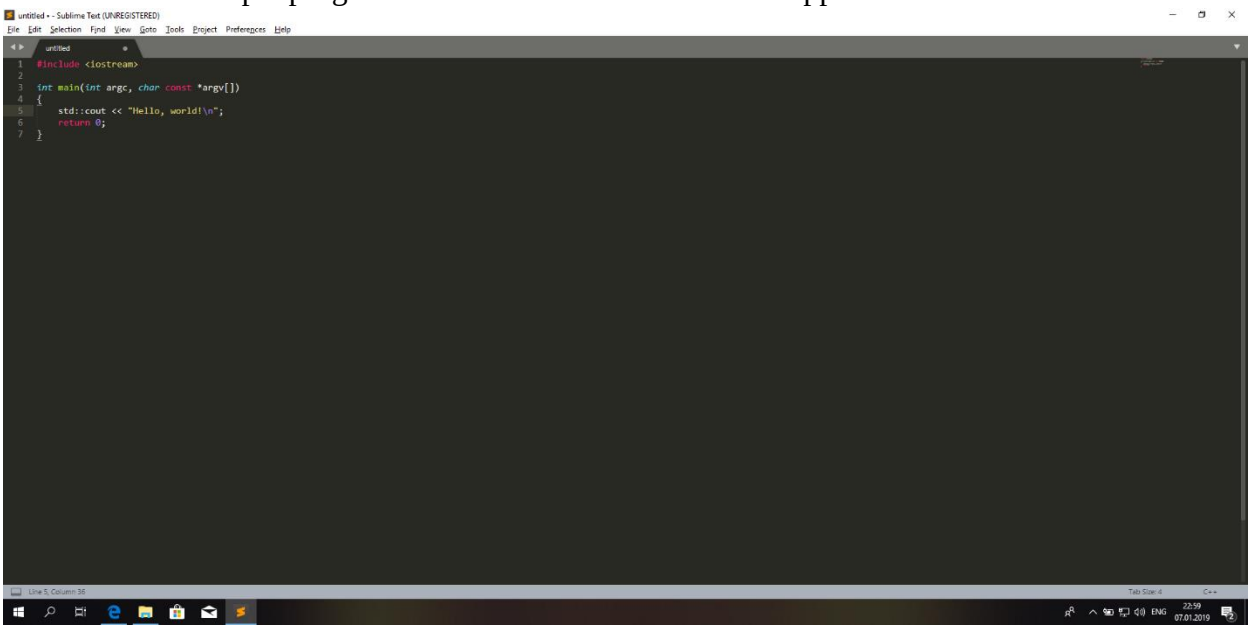
Don’t forget to add CMake to PATH

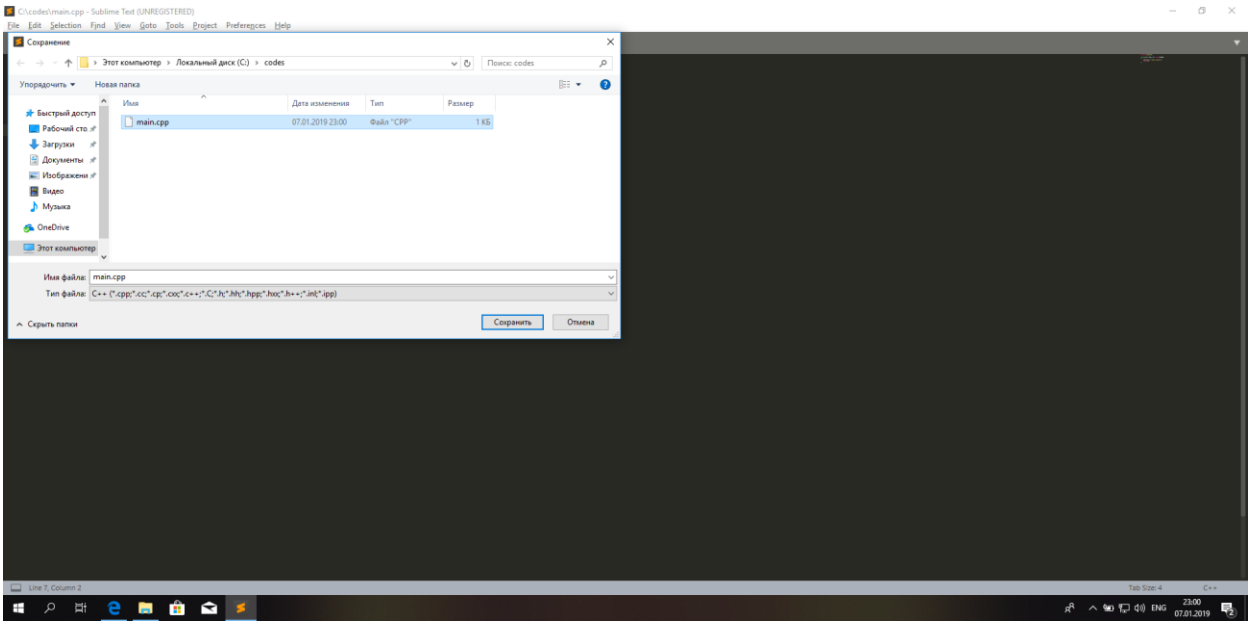


Developing C\C++ programs without IDE

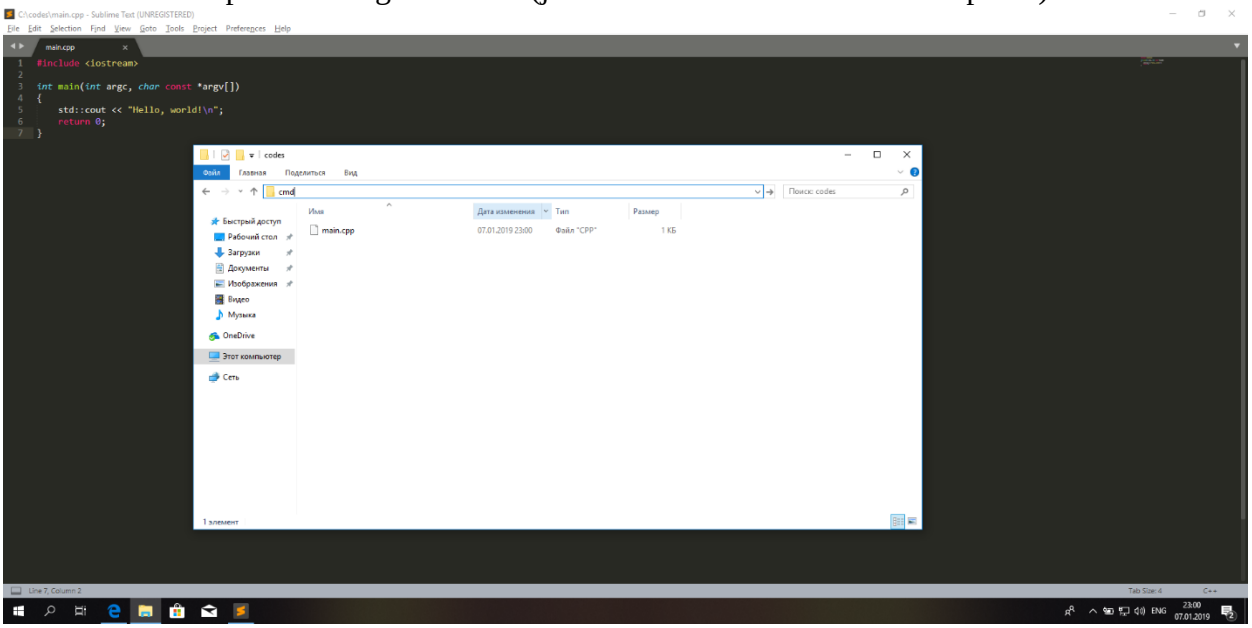
Now we can already create programs with text editors (for example I'll use Sublime Editor)

Lets's create a simple program and save source code in main.cpp file

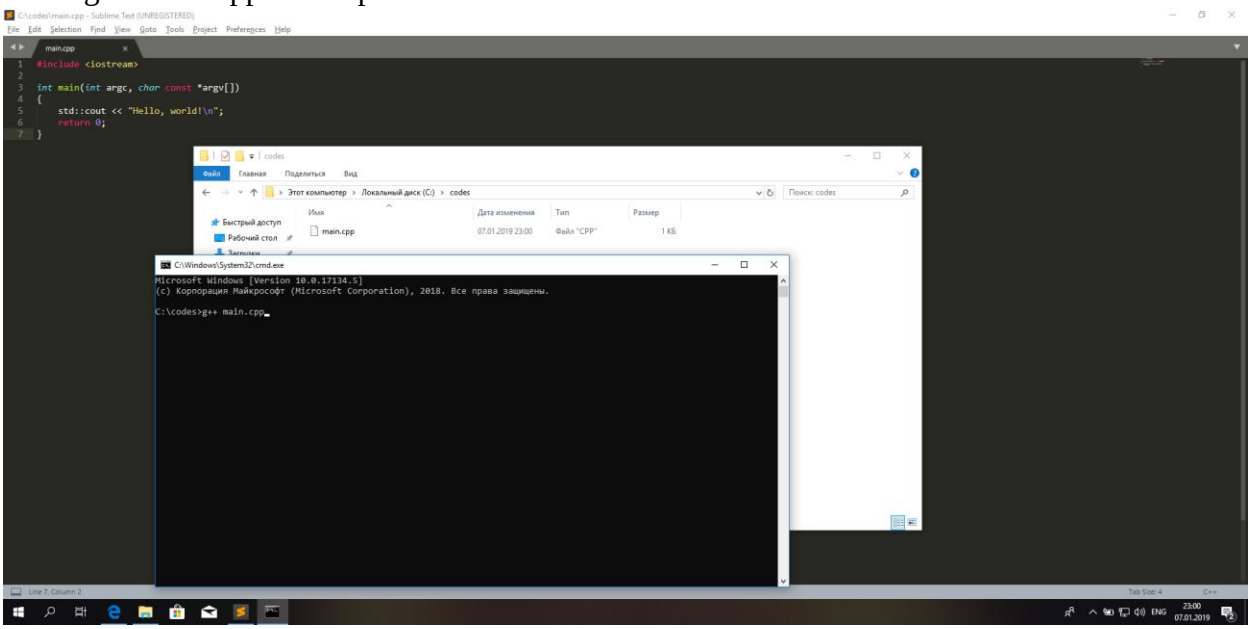




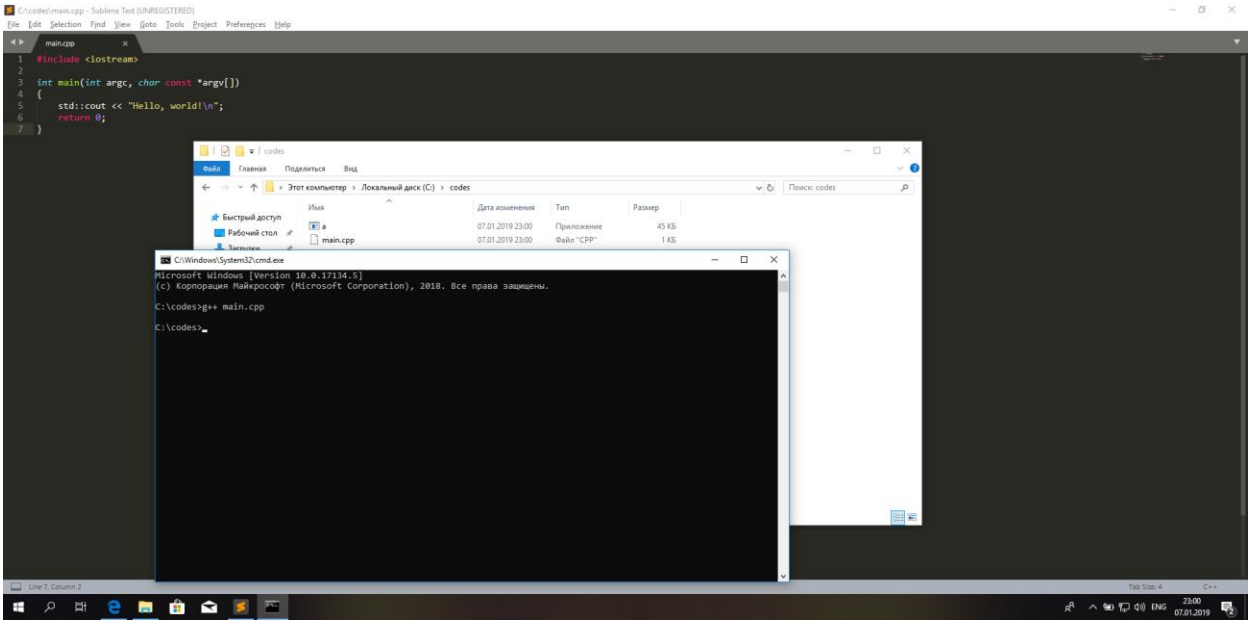
Now we can compile it through terminal (just write cmd in address bar to open it)

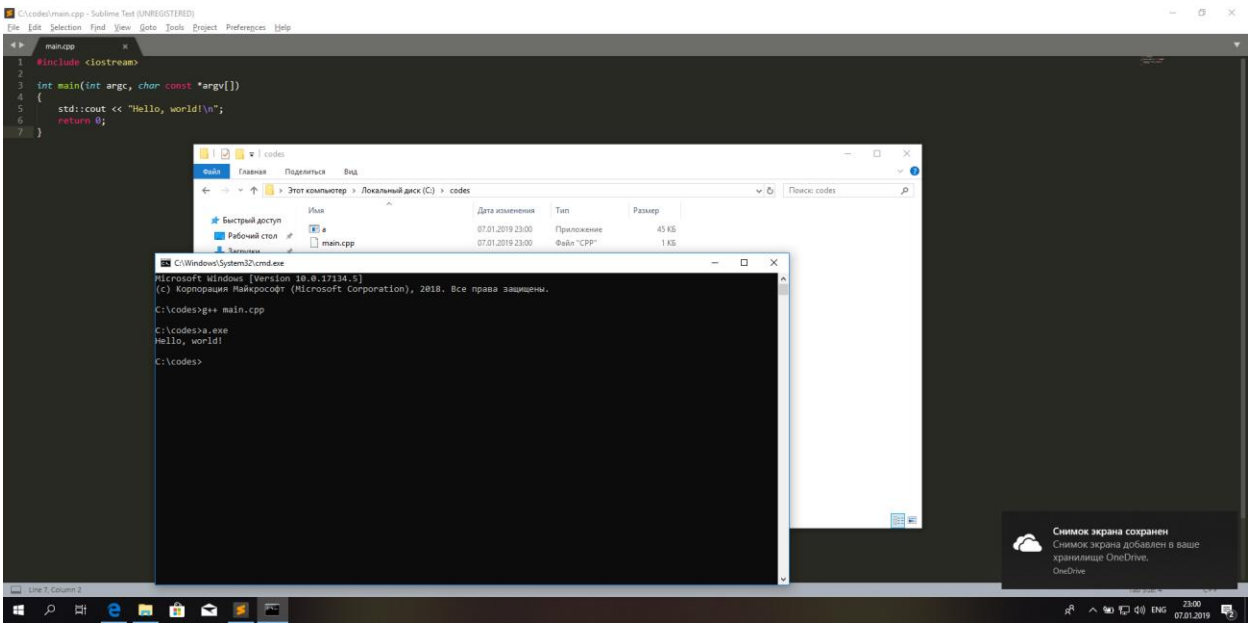


Write g++ main.cpp to compile a source code



Now we have a.exe file that we can run



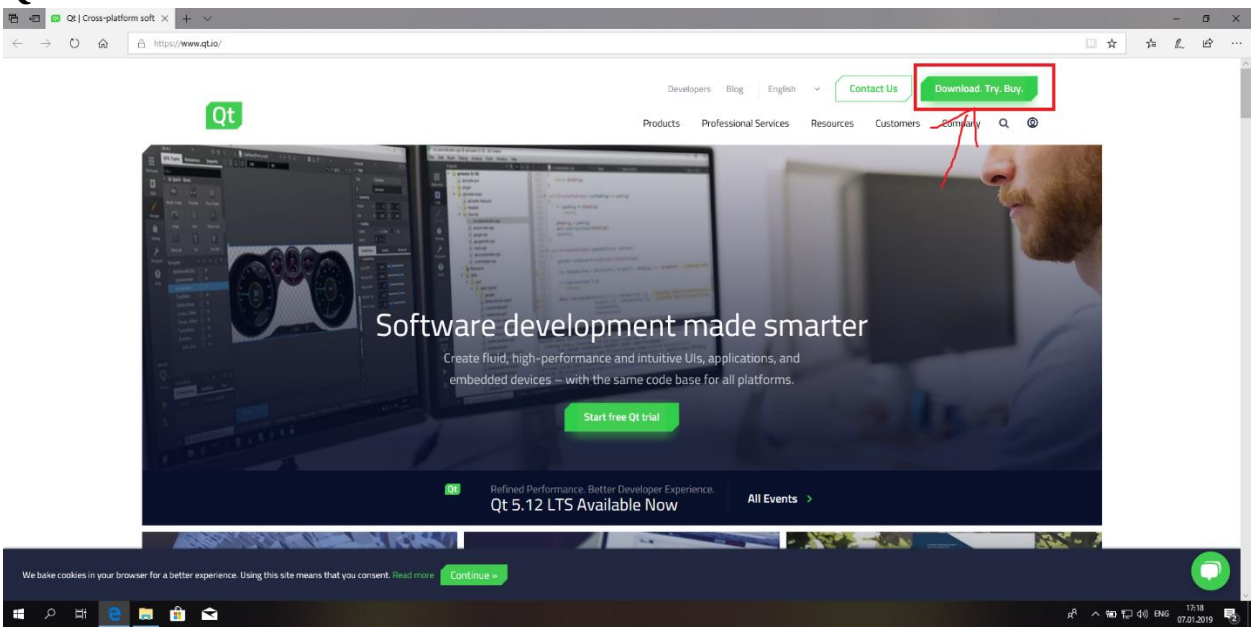


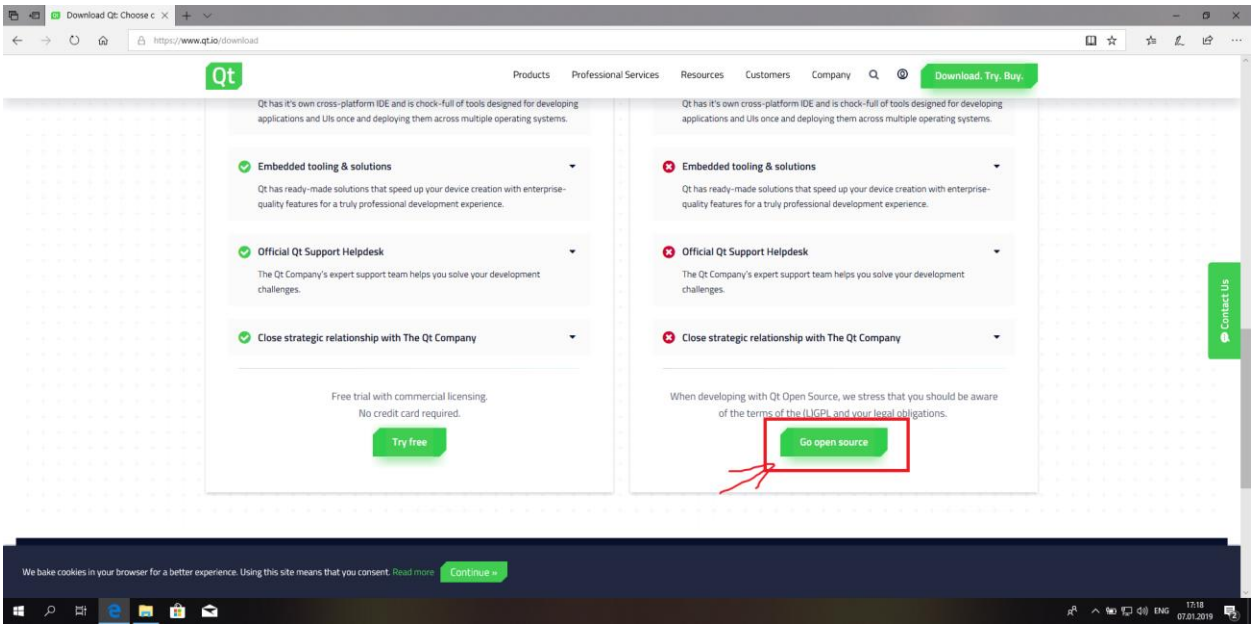
IDE installation

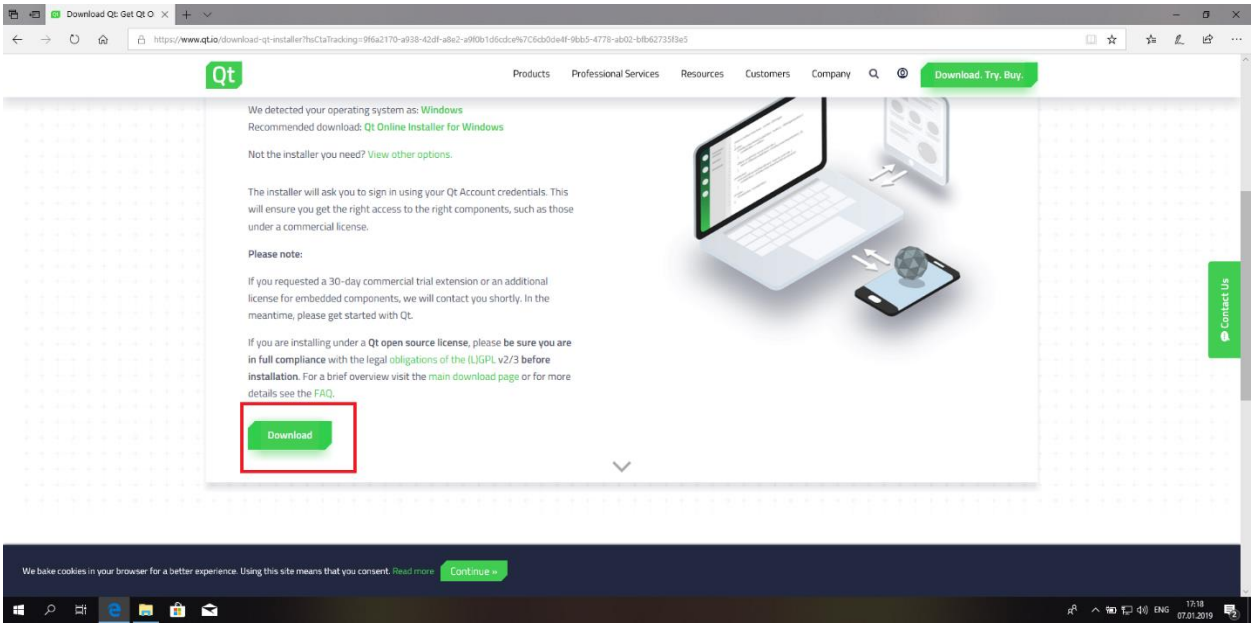
Developing programs with text editor is cool, but it would be better to develop program with IDE. In this guide I'll show you how to install CLion and Qt IDEs. You can choose any of them. As for me, I like both, so it's for you to decide. But if you have weak PC, I suggest you choose Qt.

Qt

Qt download






Download Qt: Get Qt O
https://www.qt.io/download-qt-installer?hsCtaTracking=9f6a2170-a938-42df-a8e2-a9f0b1d6cdce%7C6cb0de4f-9bb5-4778-ab02-bfb62735f8e5
Qt
Products
Professional Services
Resources
Customers
Company
Download. Try. Buy.
We detected your operating system as: Windows
Recommended download: Qt Online Installer for Windows
Not the installer you need? View other options.
The installer will ask you to sign in using your Qt Account credentials. This will ensure you get the right access to the right components, such as those under a commercial license.
Please note:
If you requested a 30-day commercial trial extension or an additional license for embedded components, we will contact you shortly. In the meantime, please get started with Qt.
If you are installing under a Qt open source license, please be sure you are in full compliance with the legal obligations of the (L)GPL v2/3 before installation. For a brief overview visit the main download page or for more details see the FAQ.
Download
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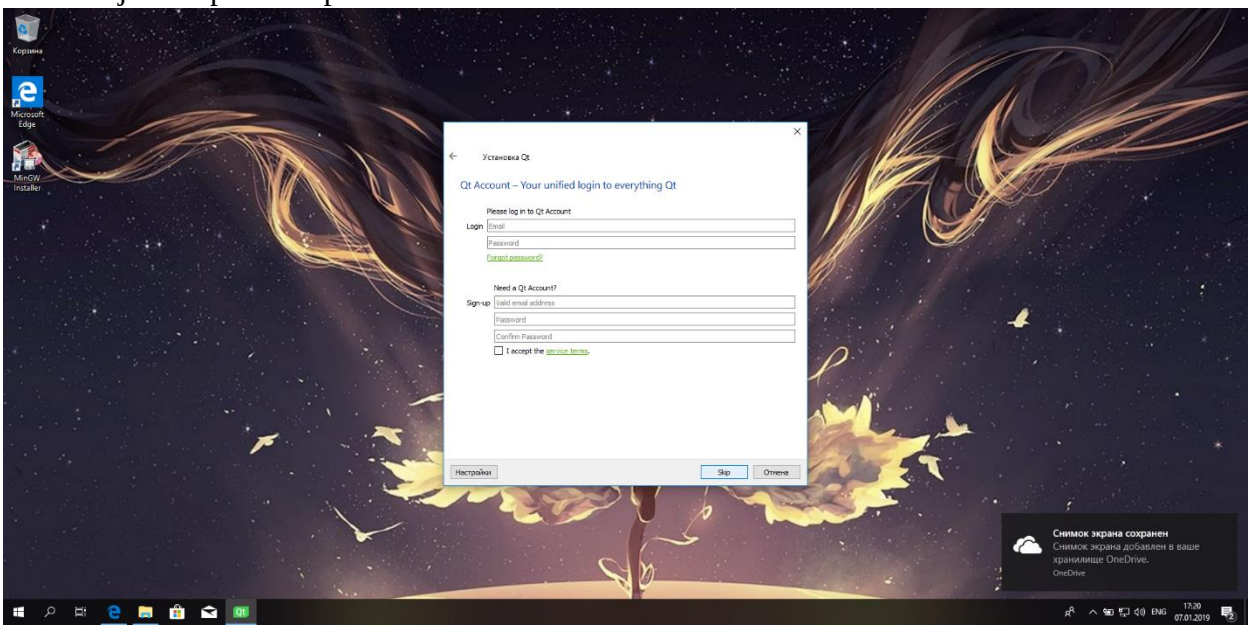
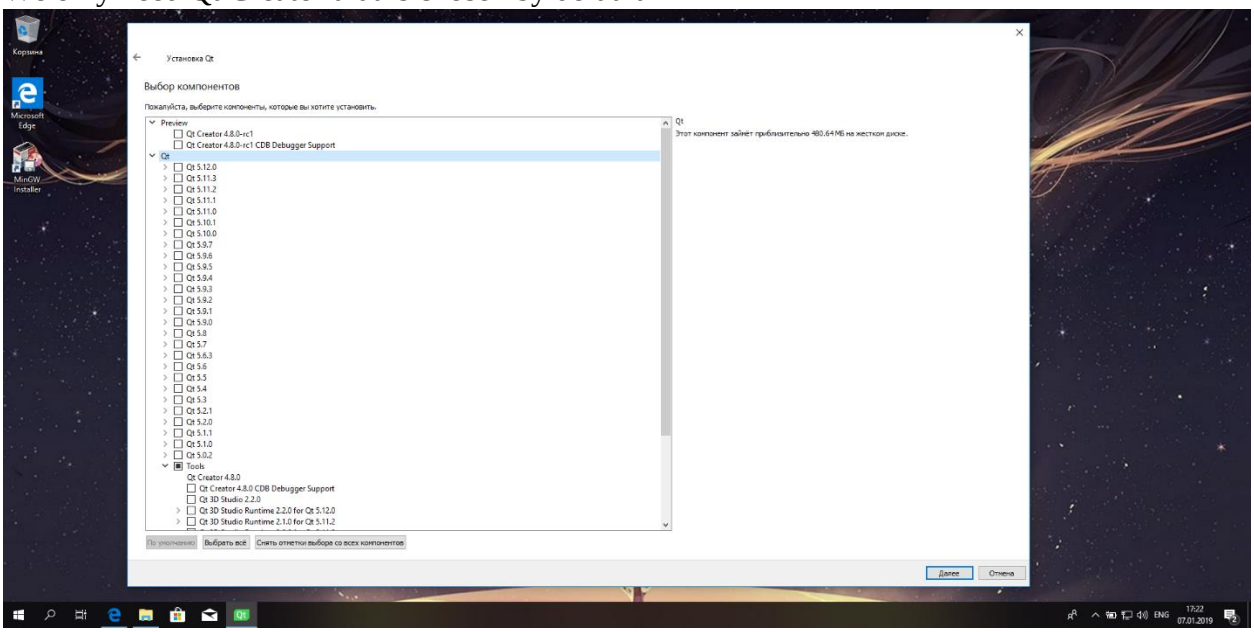
Continue »
ENG
17:18
07.01.2019

Qt installation

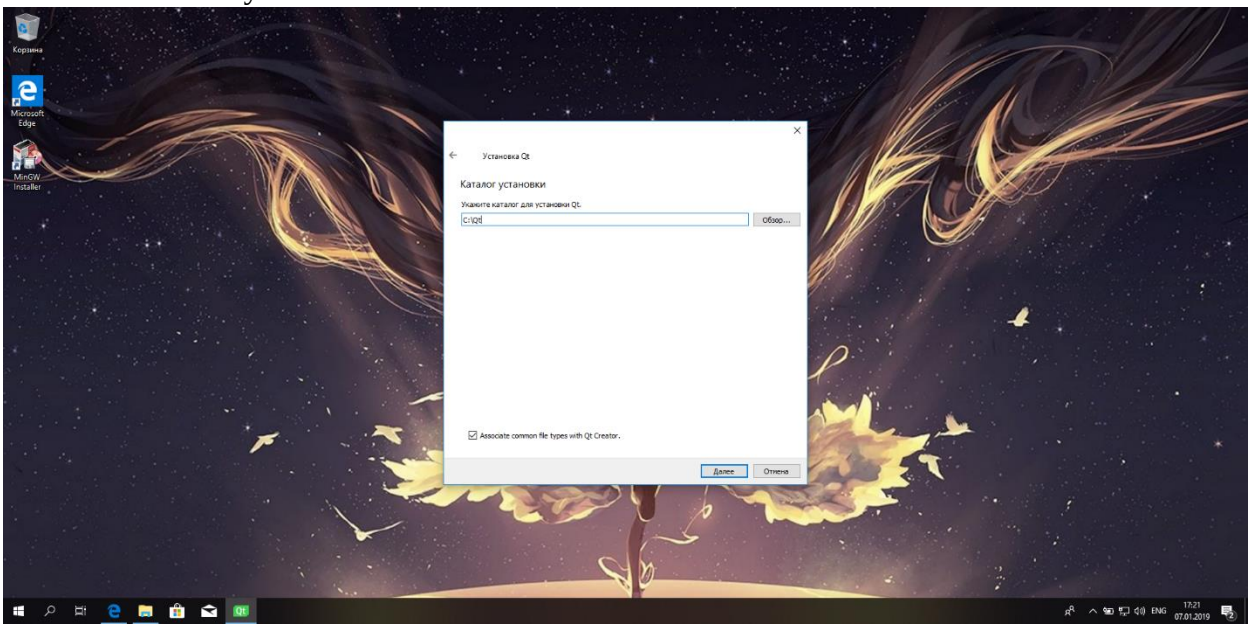
You can just skip this step



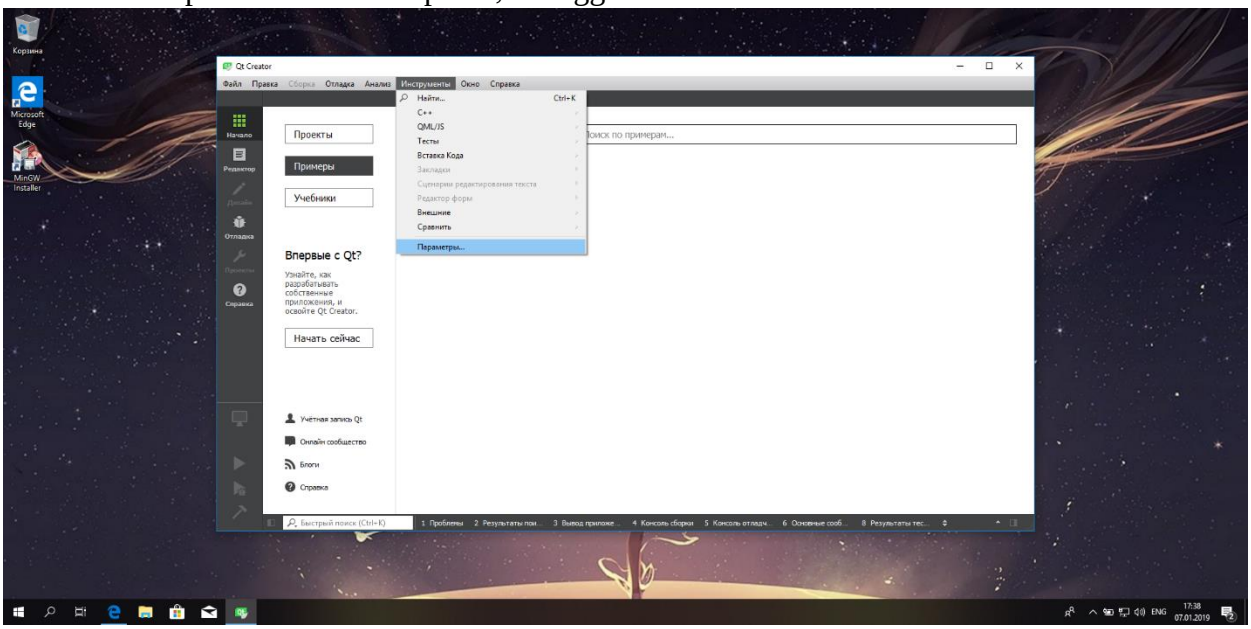
We only need Qt Creator that is chosen by default

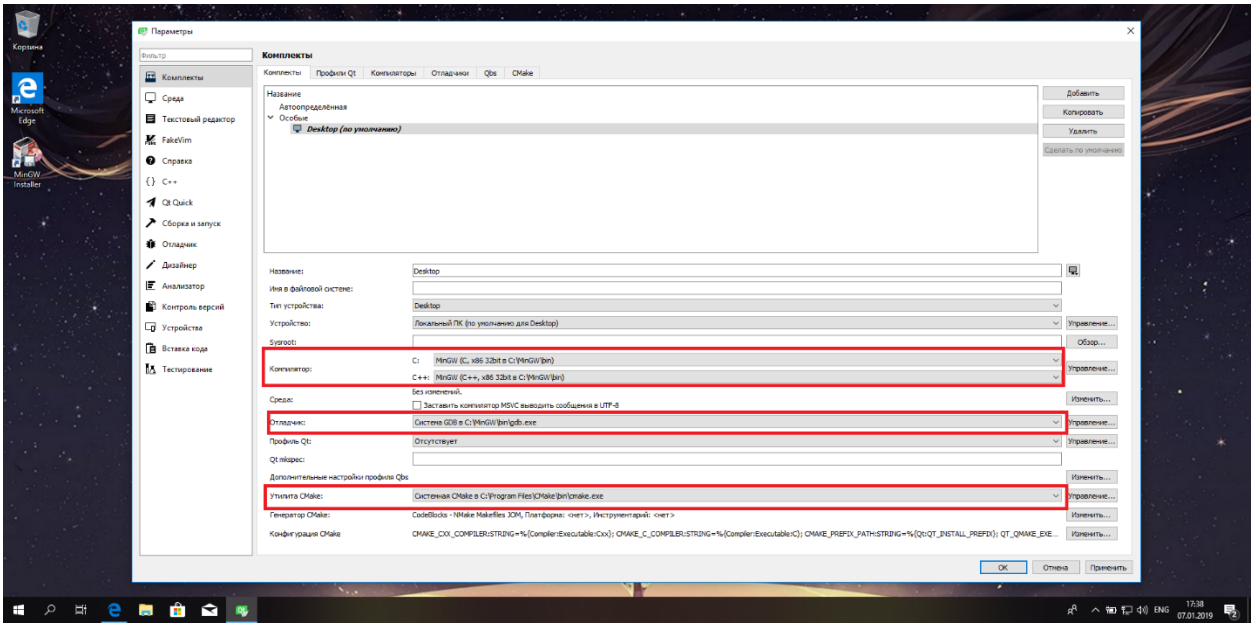


Install it wherever you want



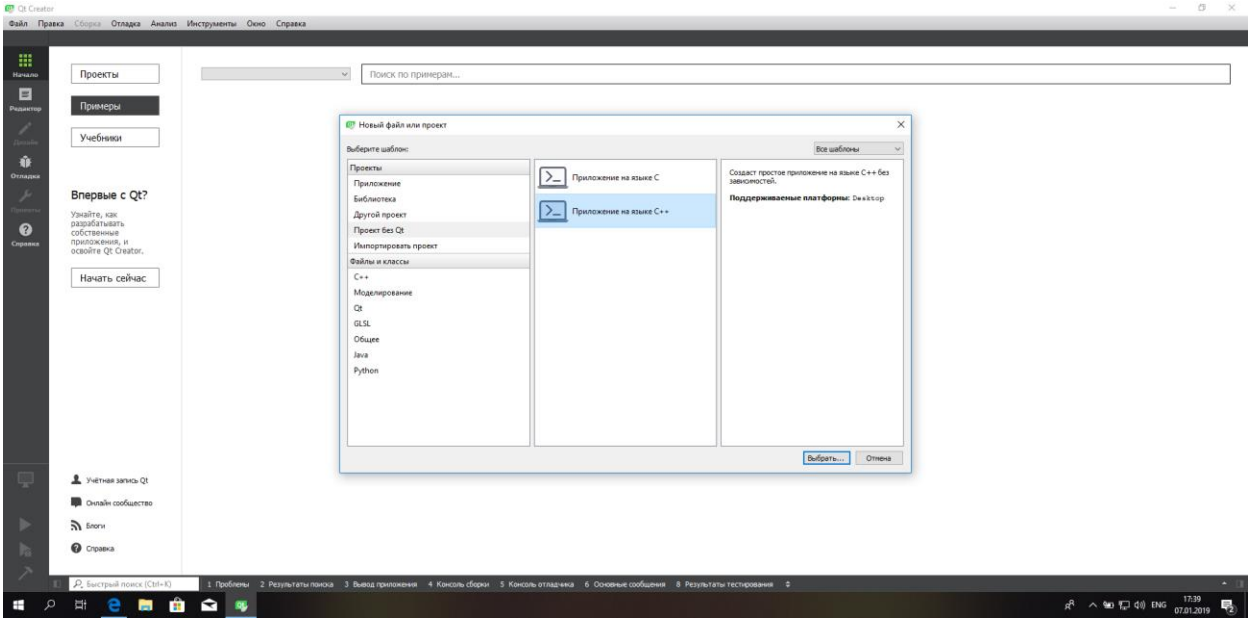
Click Tools/Options and set compilers, debugger and CMake



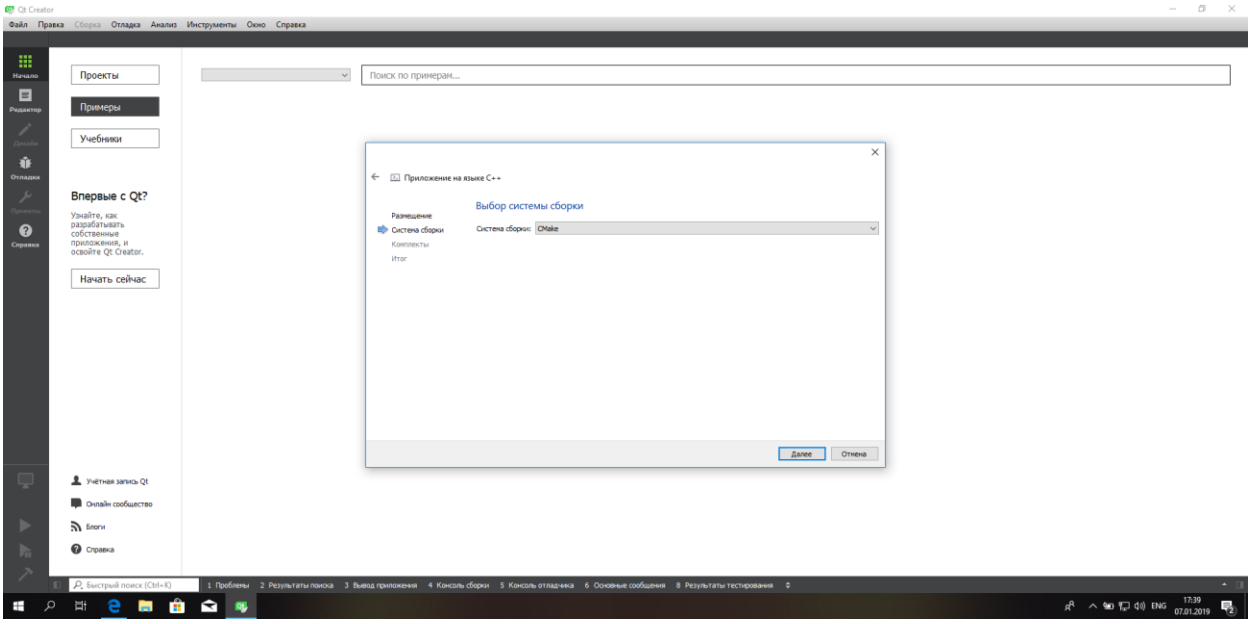

Корзина
Microsoft Edge
MinGW Installer
Параметры
Фильтр
Комплекты
Среда
Текстовый редактор
FakeVim
Справка
C++
Qt Quick
Сборка и запуск
Отладчик
Дизайнер
Анализатор
Контроль версий
Устройства
Вставка кода
Тестирование
Комплекты
Профили Qt
Компиляторы
Отладчики
Qbs
CMake
Название
Автоопределенная
Особые
Desktop (по умолчанию)
Добавить
Копировать
Удалить
Сделать по умолчанию
Название:
Desktop
Имя в файловой системе:
Тип устройства:
Desktop
Устройство:
Локальный ПК (по умолчанию для Desktop)
Управление...
Sysroot:
Обзор...
Компилятор:
C:
MinGW (C, x86 32bit в C:\MinGW\bin)
C++:
MinGW (C++, x86 32bit в C:\MinGW\bin)
Управление...
Среда:
Без изменений.
Изменить...
Заставить компилятор MSVC выводить сообщения в UTF-8
Отладчик:
Система GDB в C:\MinGW\bin\gdb.exe
Управление...
Профиль Qt:
Отсутствует
Управление...
Qt mkspec:
Дополнительные настройки профиля Qbs
Изменить...
Утилита CMake:
Системная CMake в C:\Program Files\CMake\bin\cmake.exe
Управление...
Генератор CMake:
CodeBlocks - NMake Makefiles JOM, Платформа: <нет>, Инструментарий: <нет>
Изменить...
Конфигурация CMake
CMAKE_CXX_COMPILER:STRING=%{Compiler:Executable:Cxx}; CMAKE_C_COMPILER:STRING=%{Compiler:Executable:C}; CMAKE_PREFIX_PATH:STRING=%{Qt:QT_INSTALL_PREFIX}; QT_QMAKE_EXE...
Изменить...
OK
Отмена
Применить
ENG
17:38
07.01.2019

First project

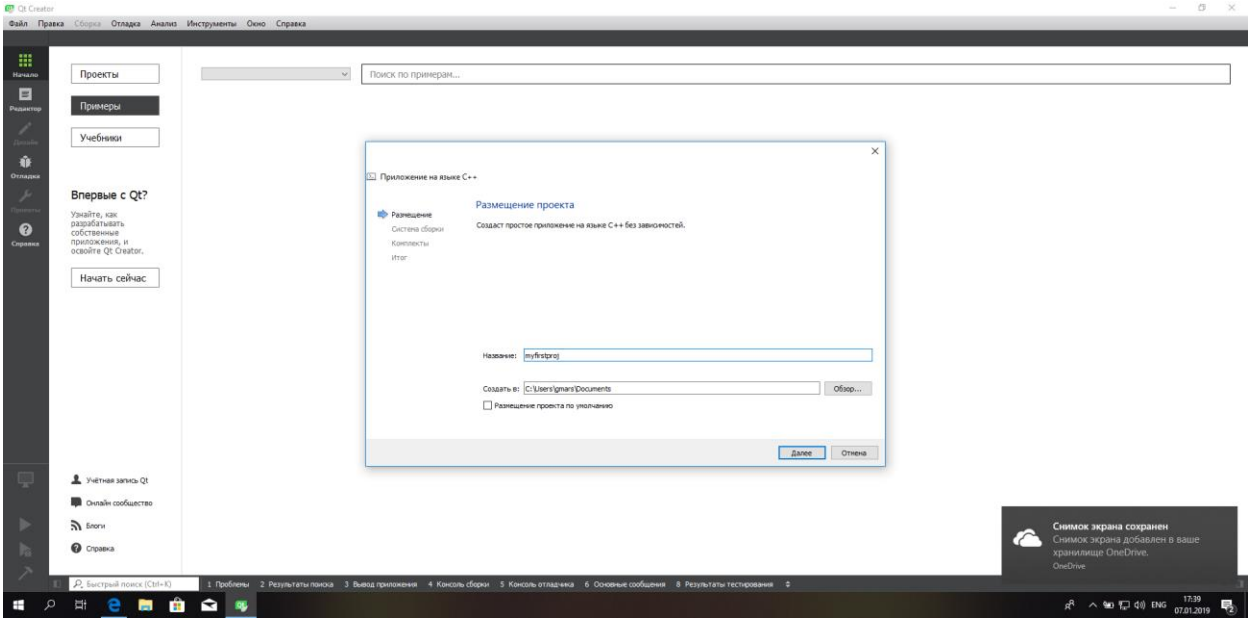
Press Ctrl+N and choose Non-Qt Project/Plain C++ Application

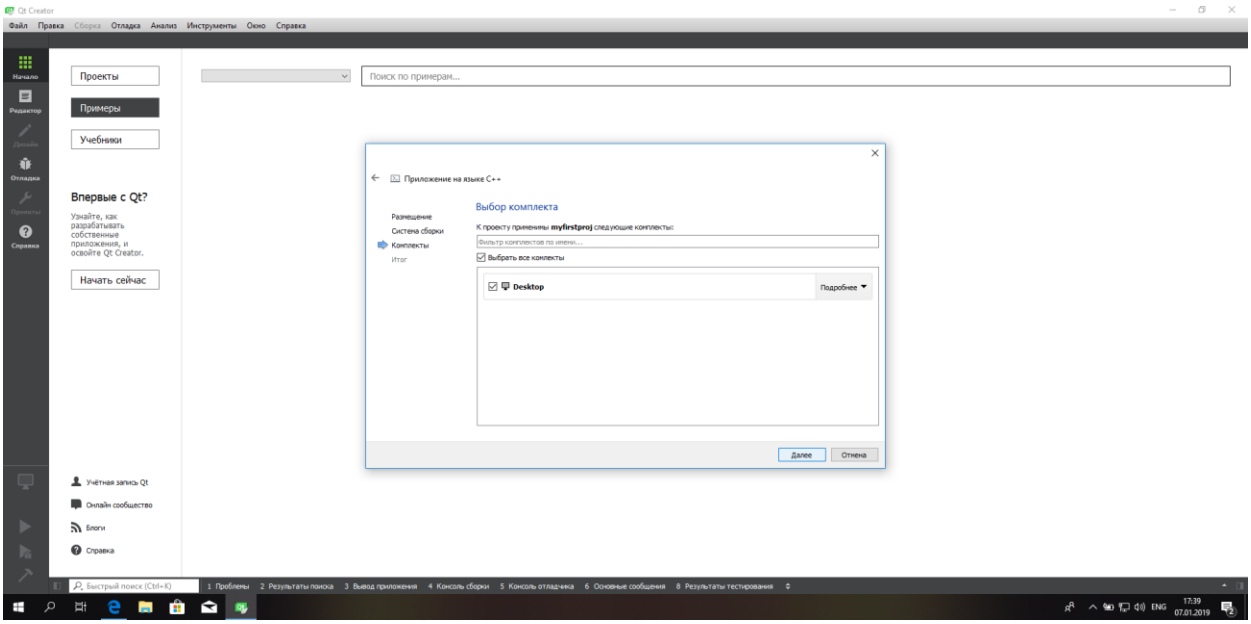


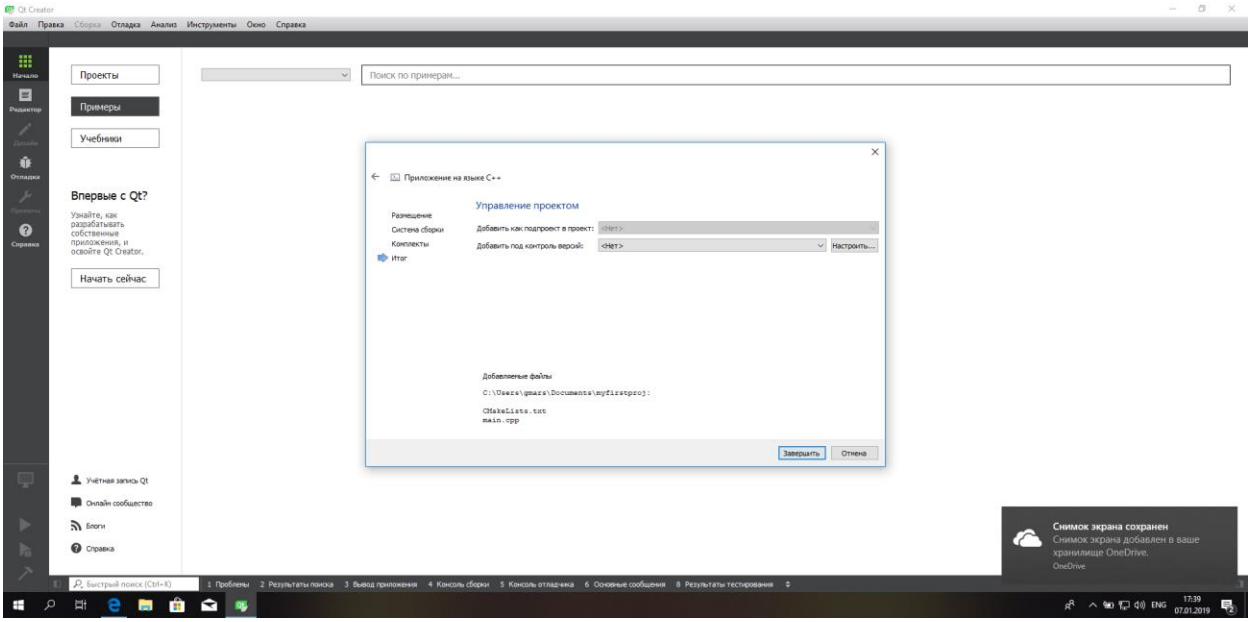
Choose CMake



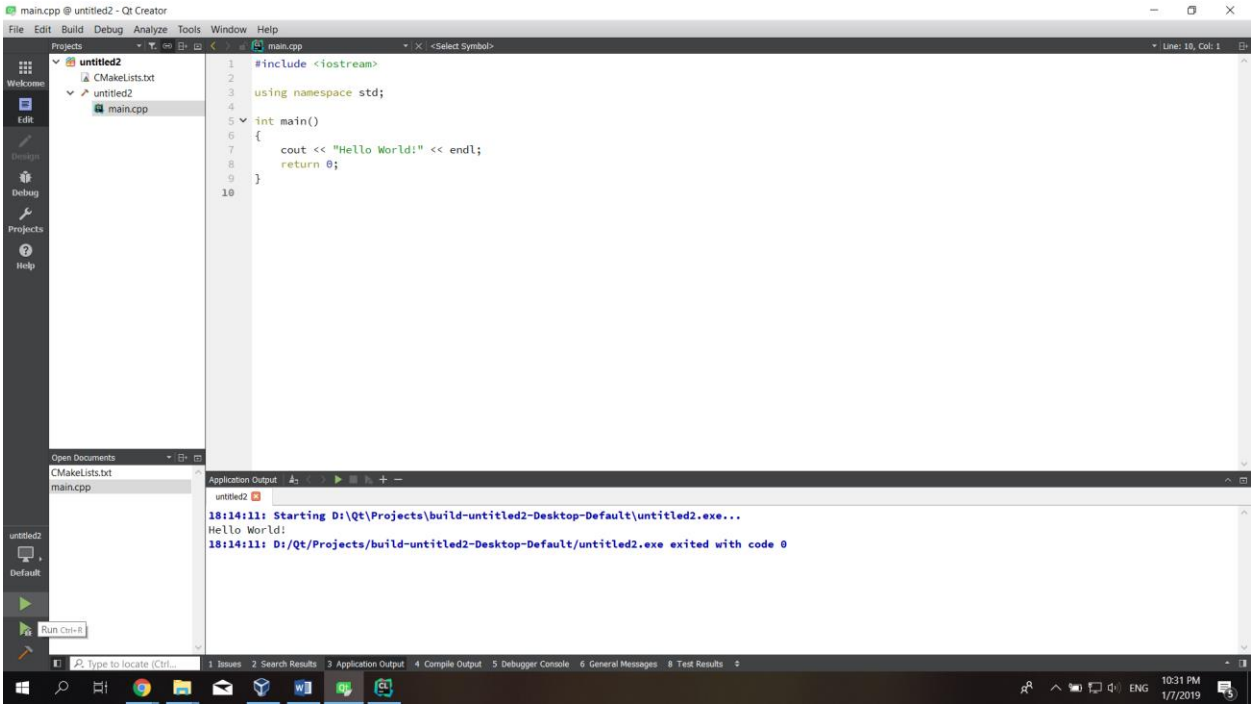
Choose directory for a project





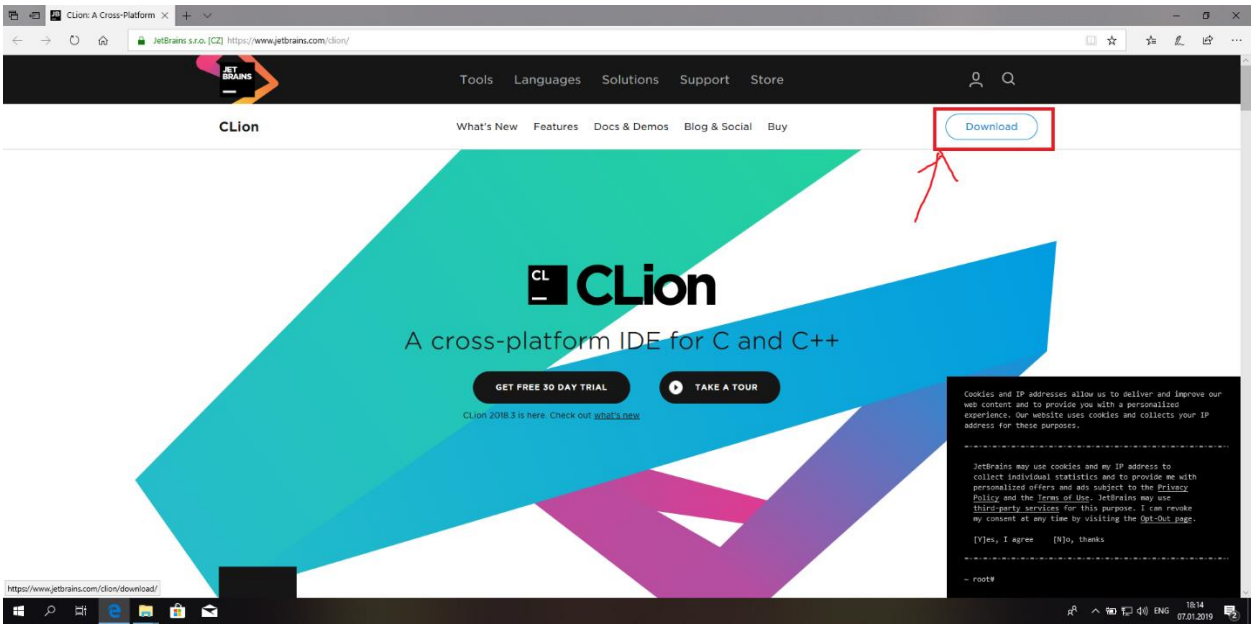


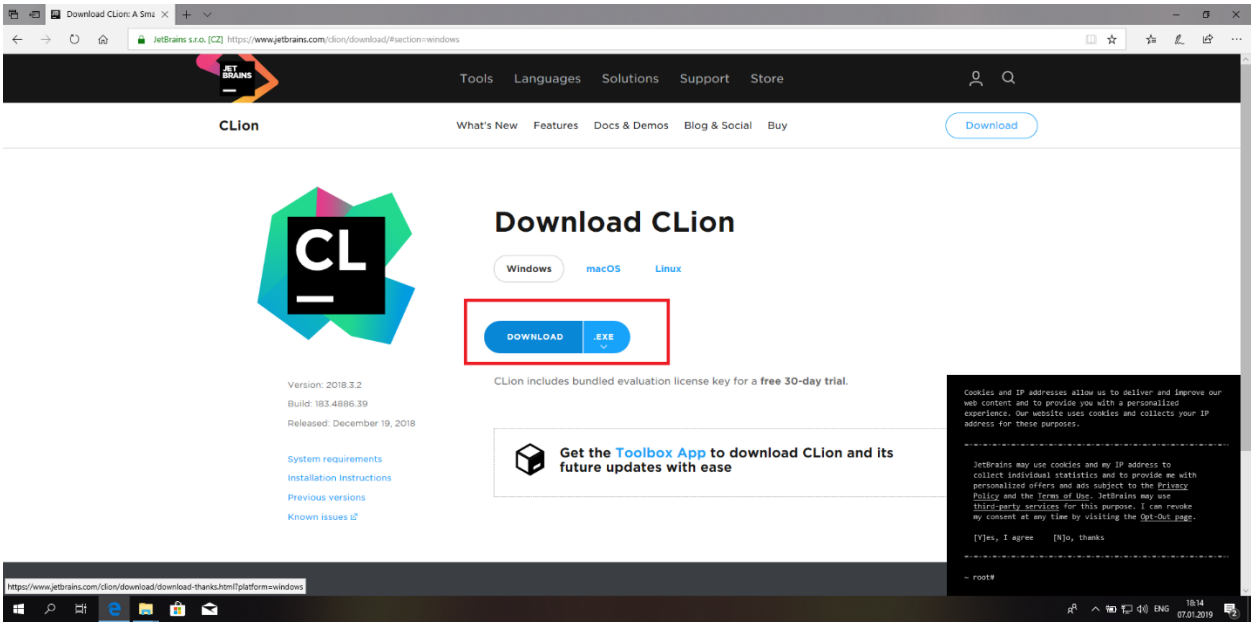
Now you can run a simple program (Run or Ctrl+R)



CLion

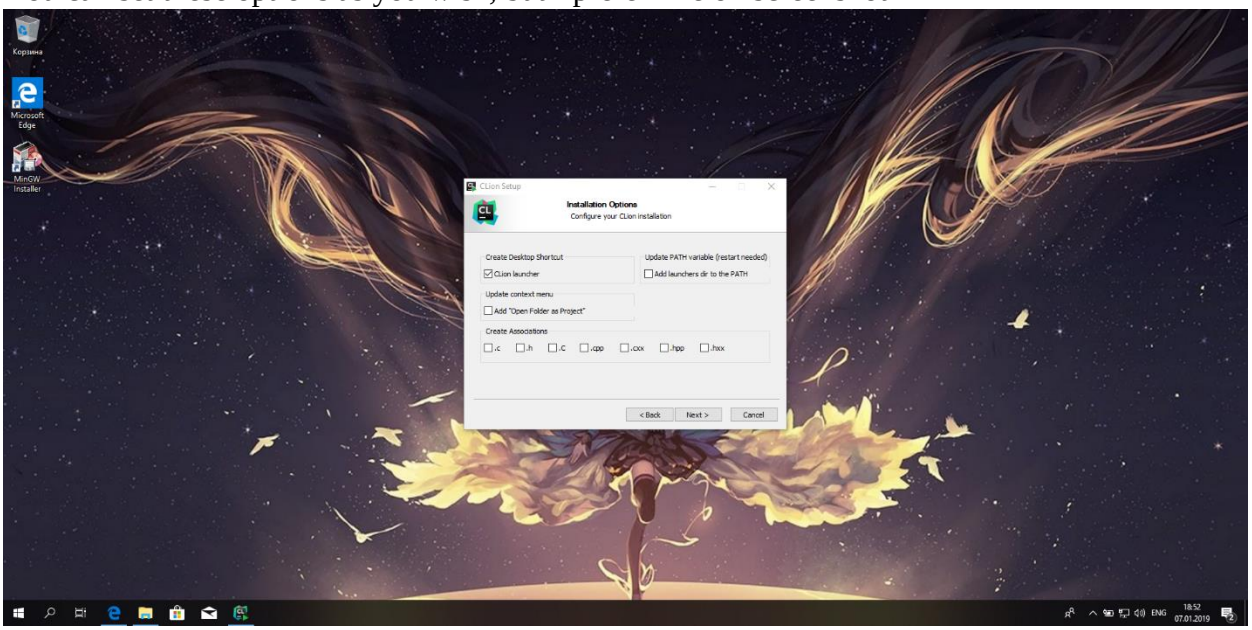
CLion download

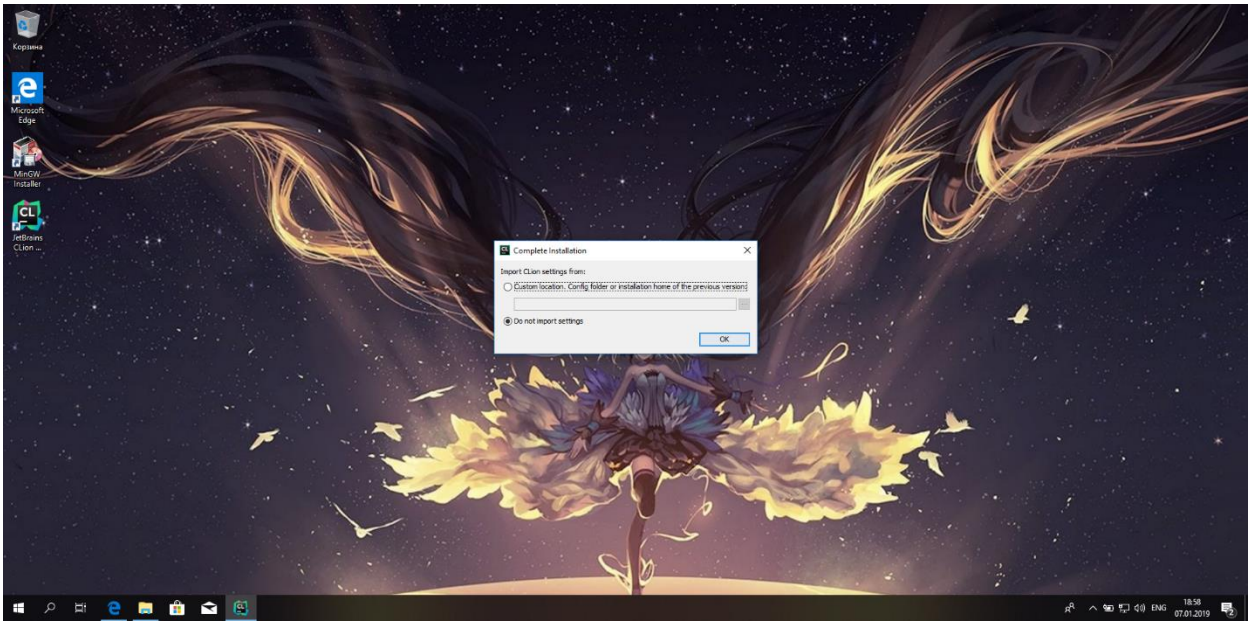




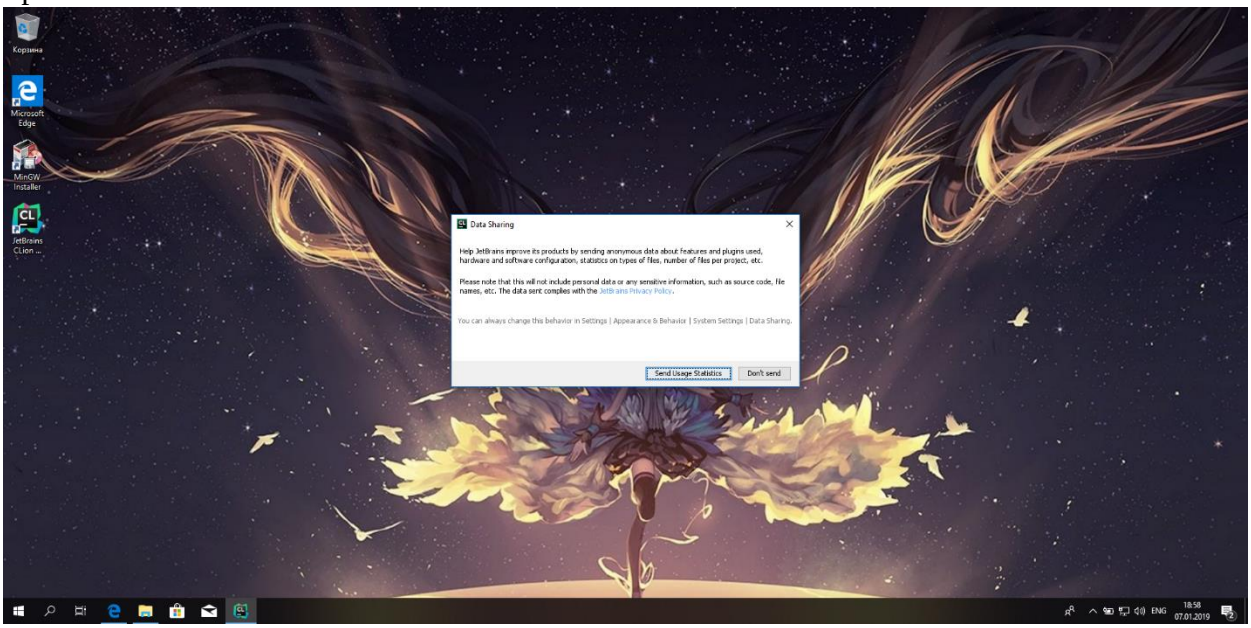
CLion installation

You can set these options as you wish, but I prefer like on screenshot

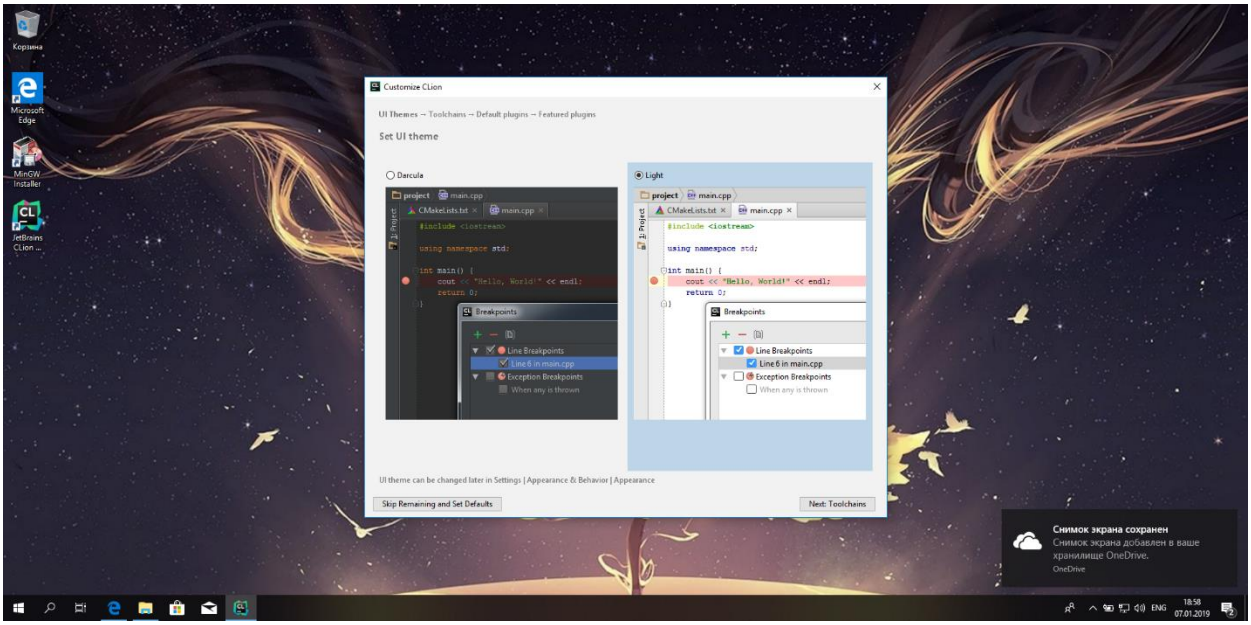




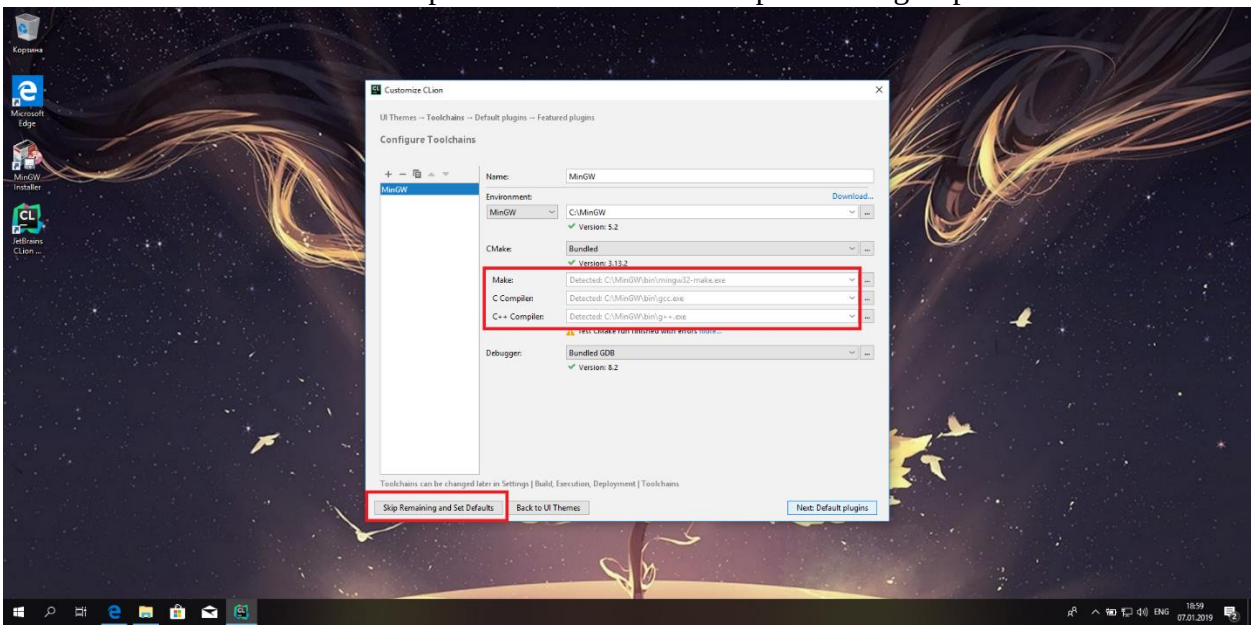
I prefer not to send



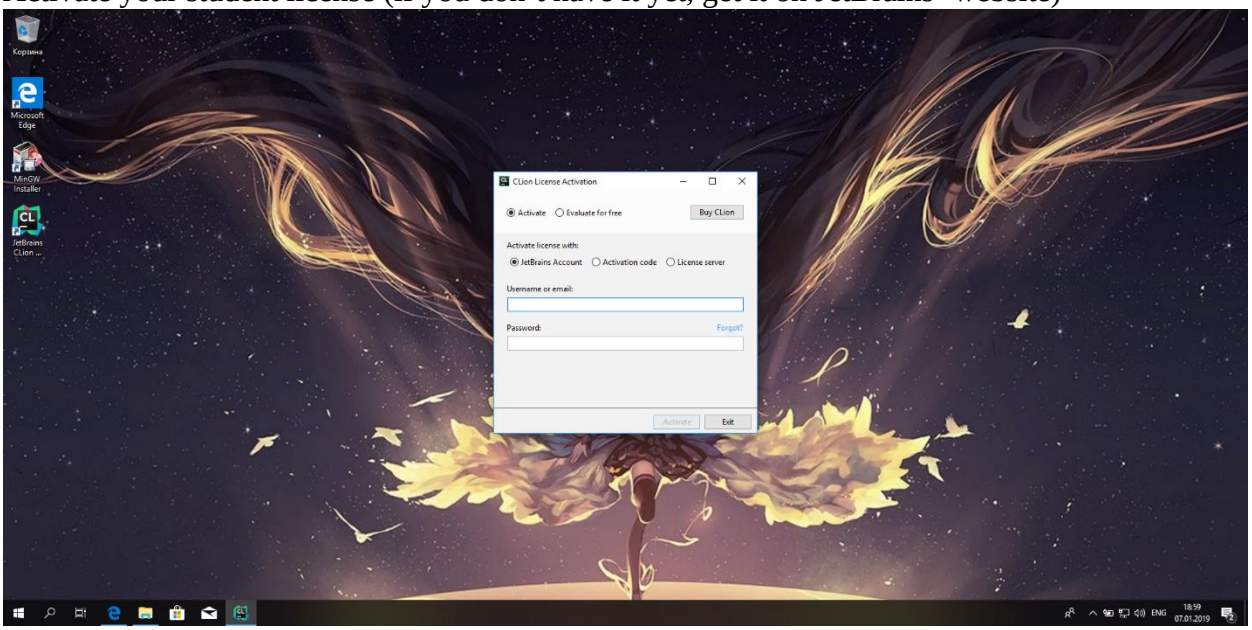
Choose theme



Make sure that CLion found compilers and CMake and skip remaining steps

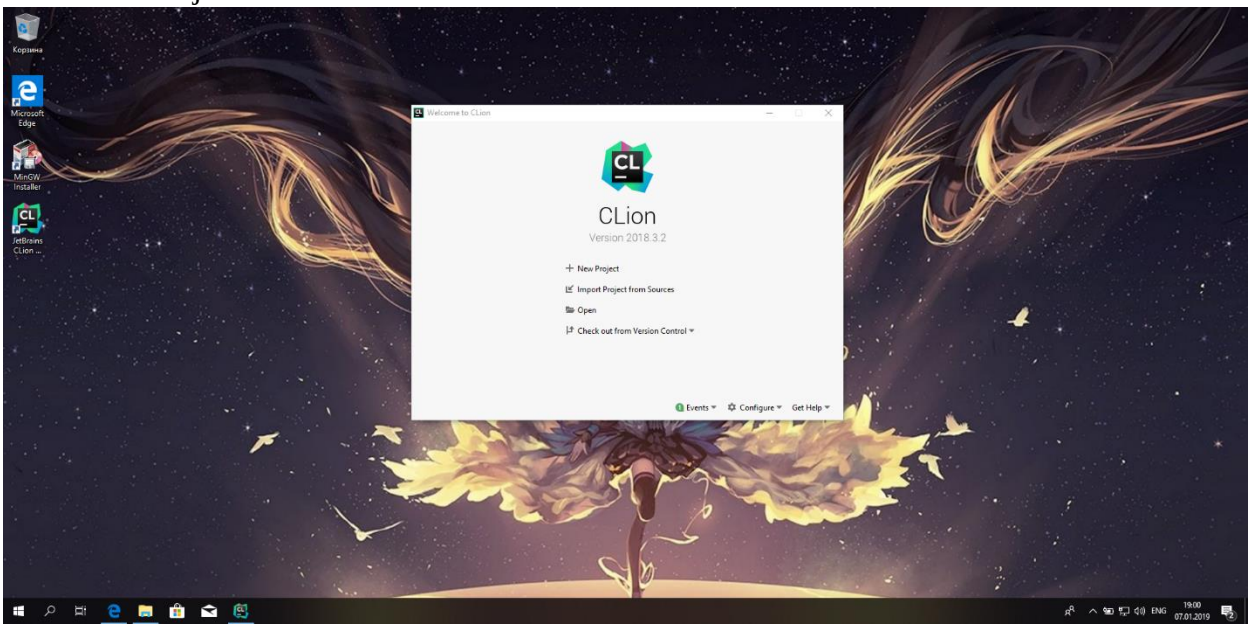


Activate your student license (if you don’t have it yet, get it on JetBrains’ website)

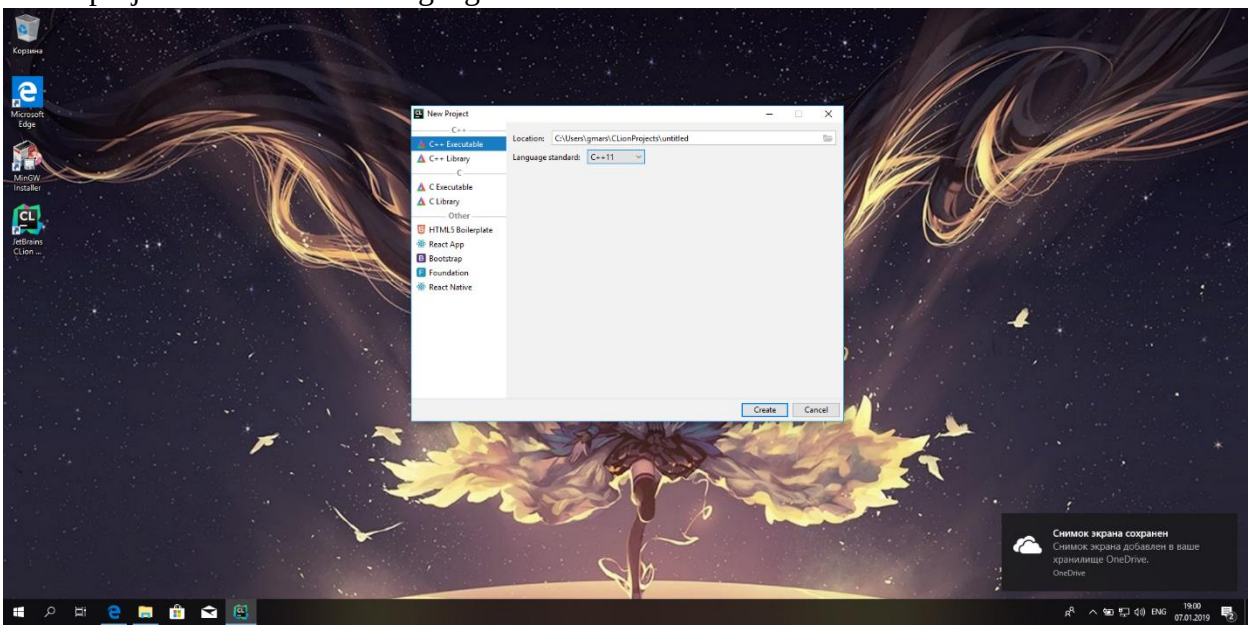


First project

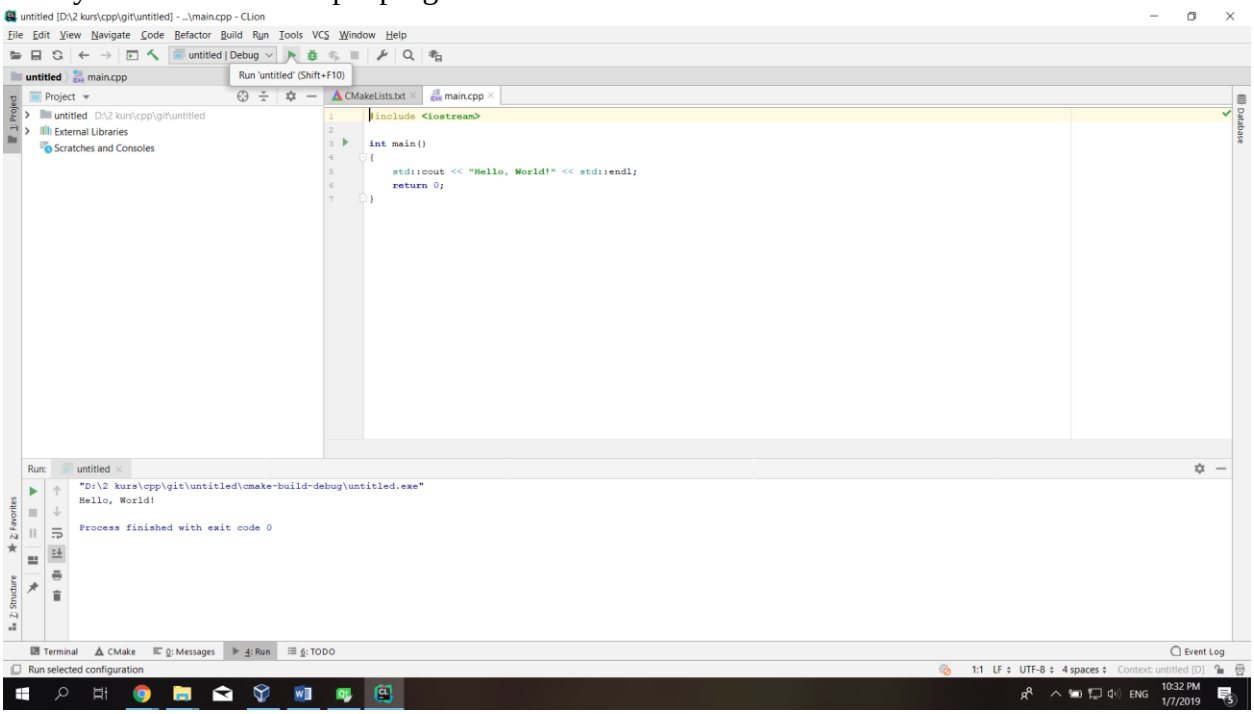
Click New Project



Select project folder and set Language standard to C++11



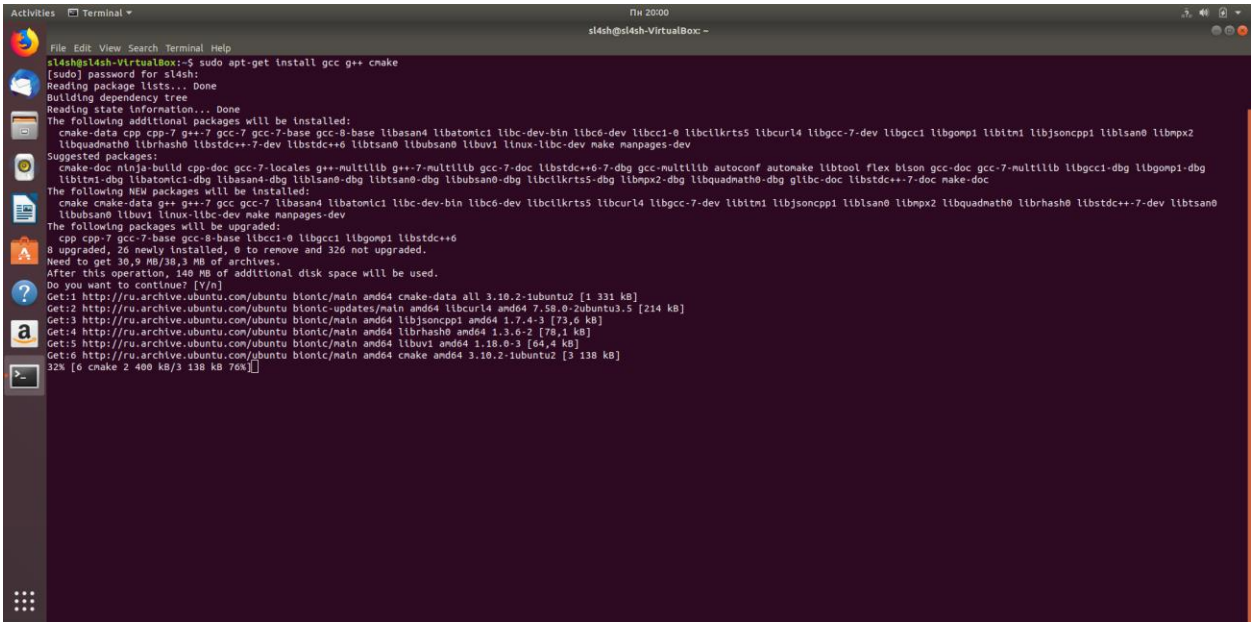
Now you can run this simple program



Development tools for Linux (Ubuntu) installation

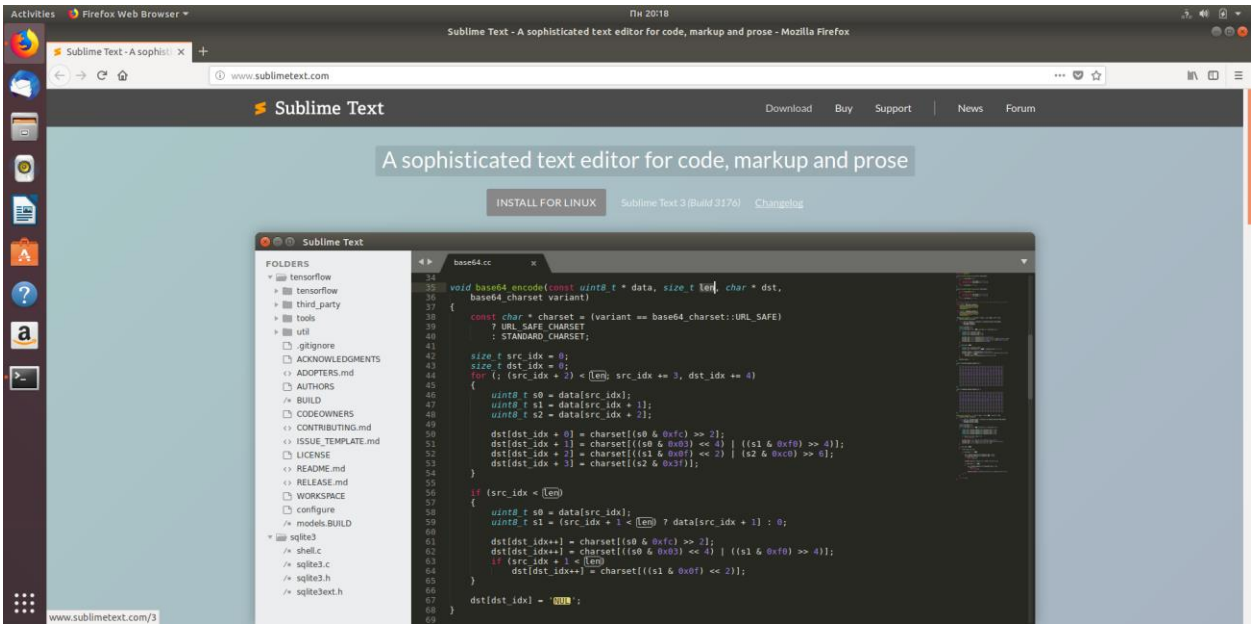
C\C++ compiler and CMake installation

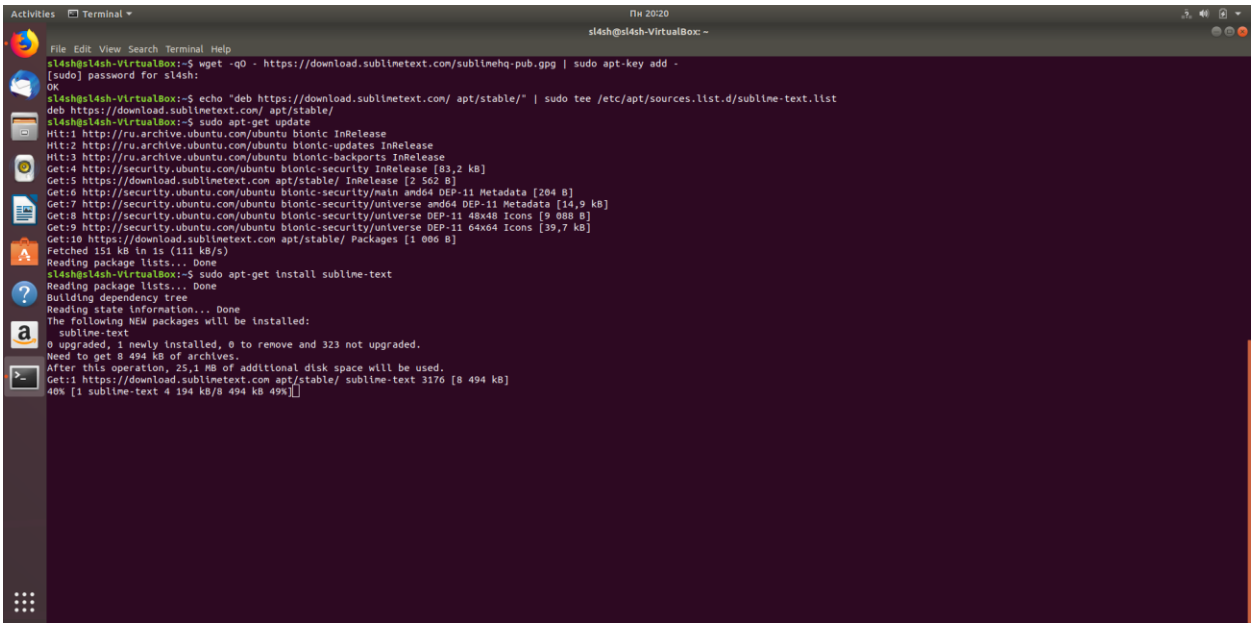
Just type in terminal “sudo apt-get install gcc g++ cmake”



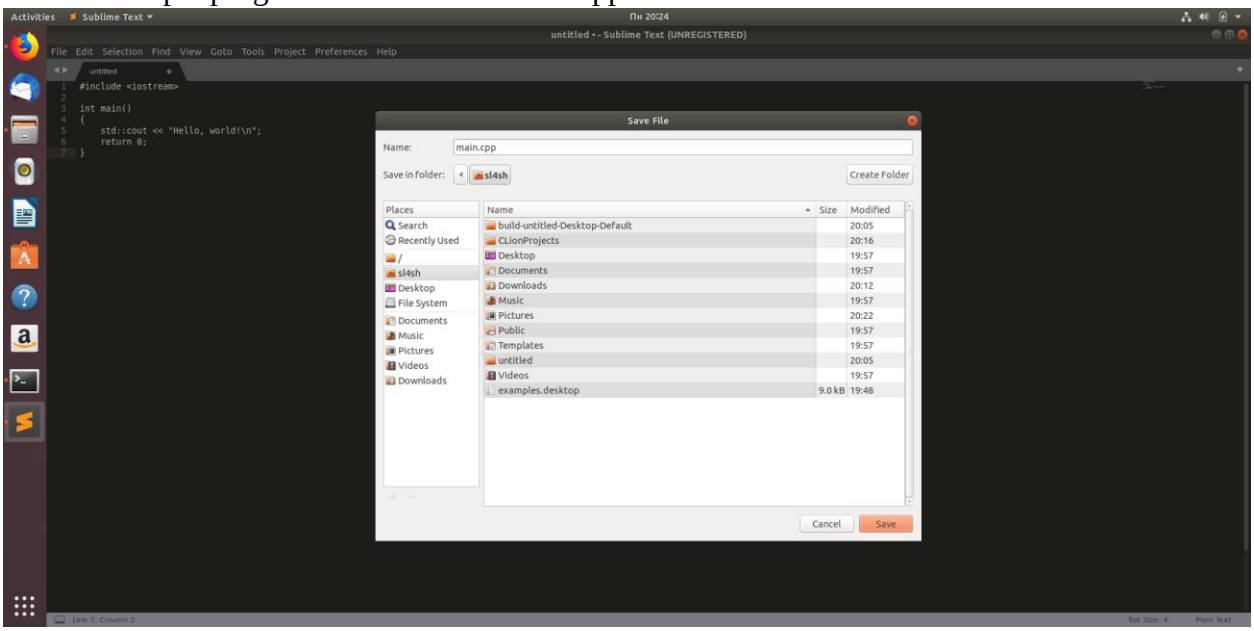
Developing C\C++ programs without IDE

Now we can already create programs with text editors (for example I'll use Sublime Editor)

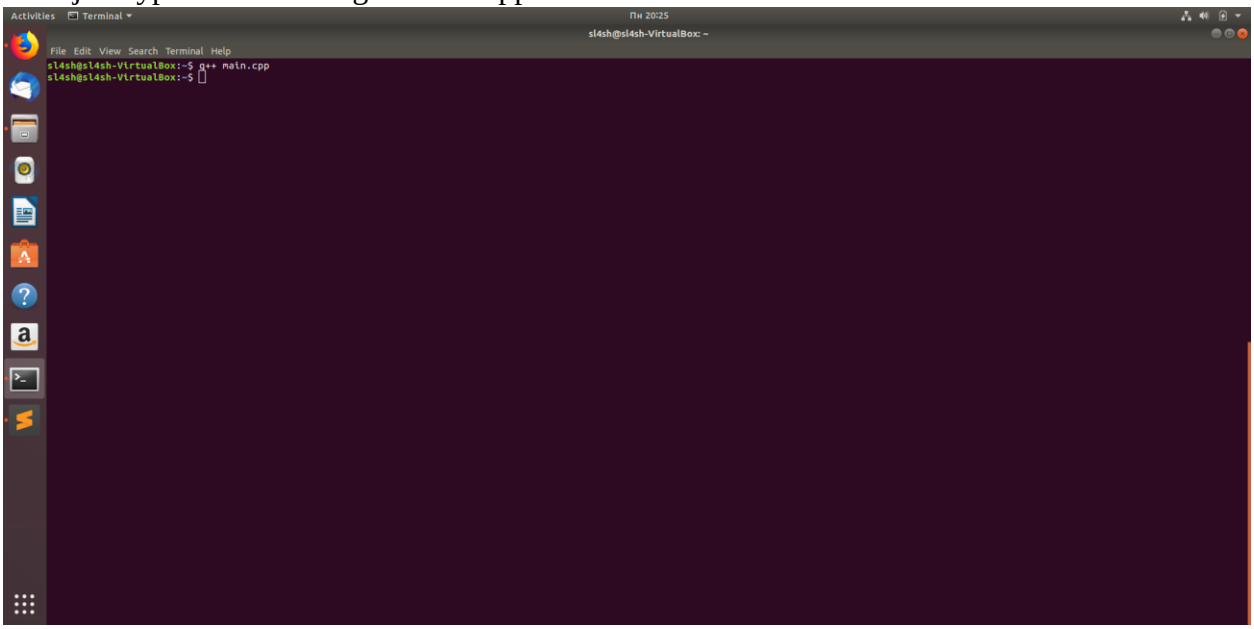




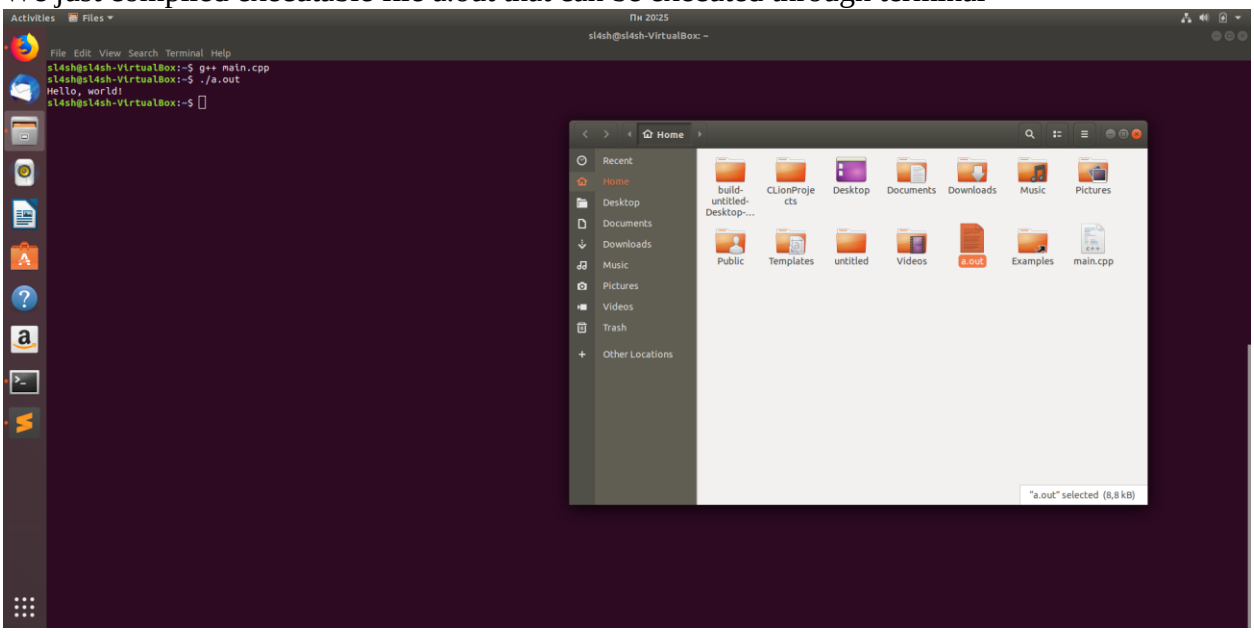
Create a simple program and save it as main.cpp



Now just type in terminal “g++ main.cpp”



We just complied executable file a.out that can be executed through terminal



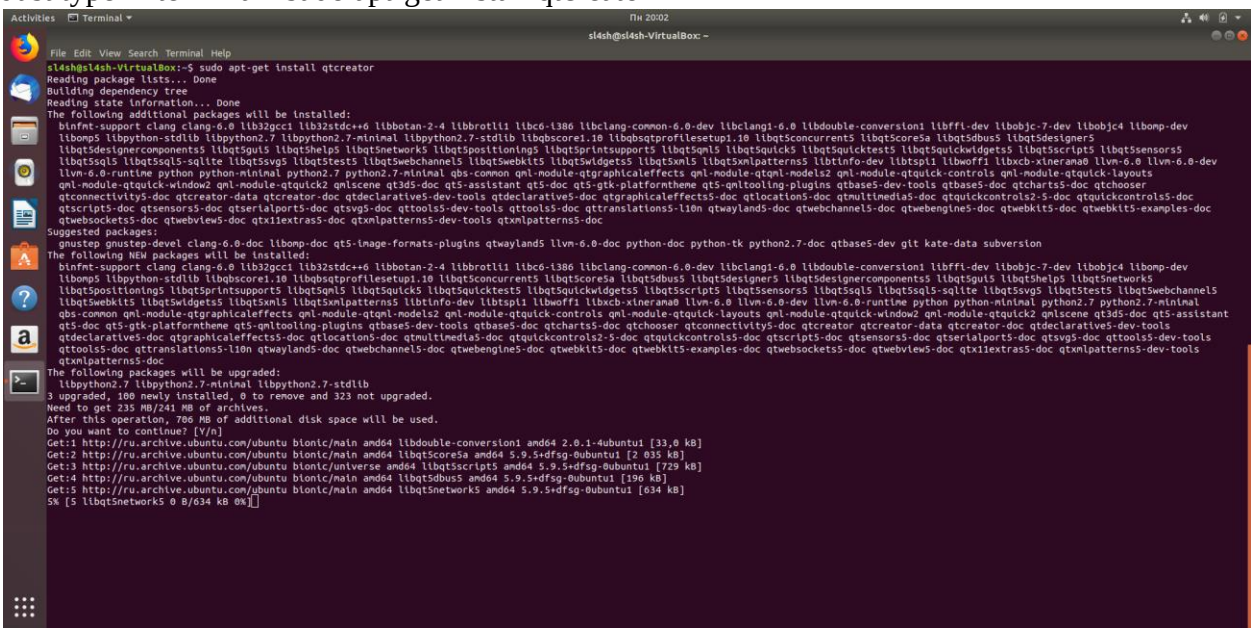
IDE installation

Developing programs with text editor is cool, but it would be better to develop program with IDE. In this guide I'll show you how to install CLion and Qt IDEs. You can choose any of them. As for me, I like both, so it's for you to decide. But if you have weak PC, I suggest you choose Qt.

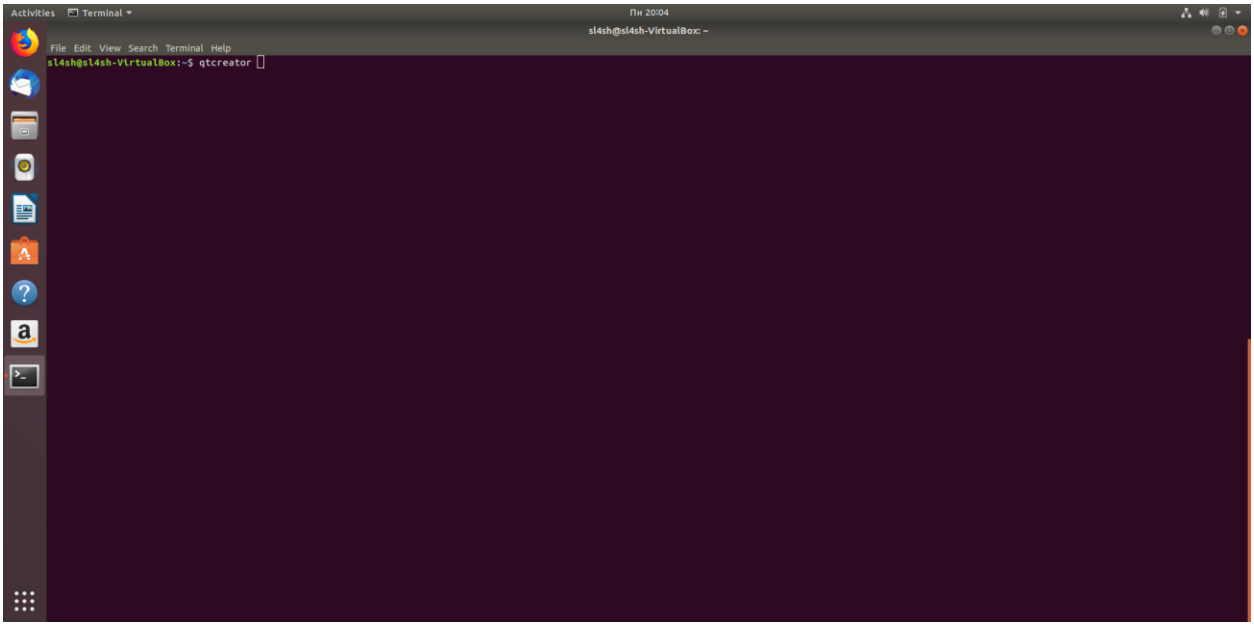
Qt

Qt download

Just type in terminal "sudo apt-get install qtcreator"

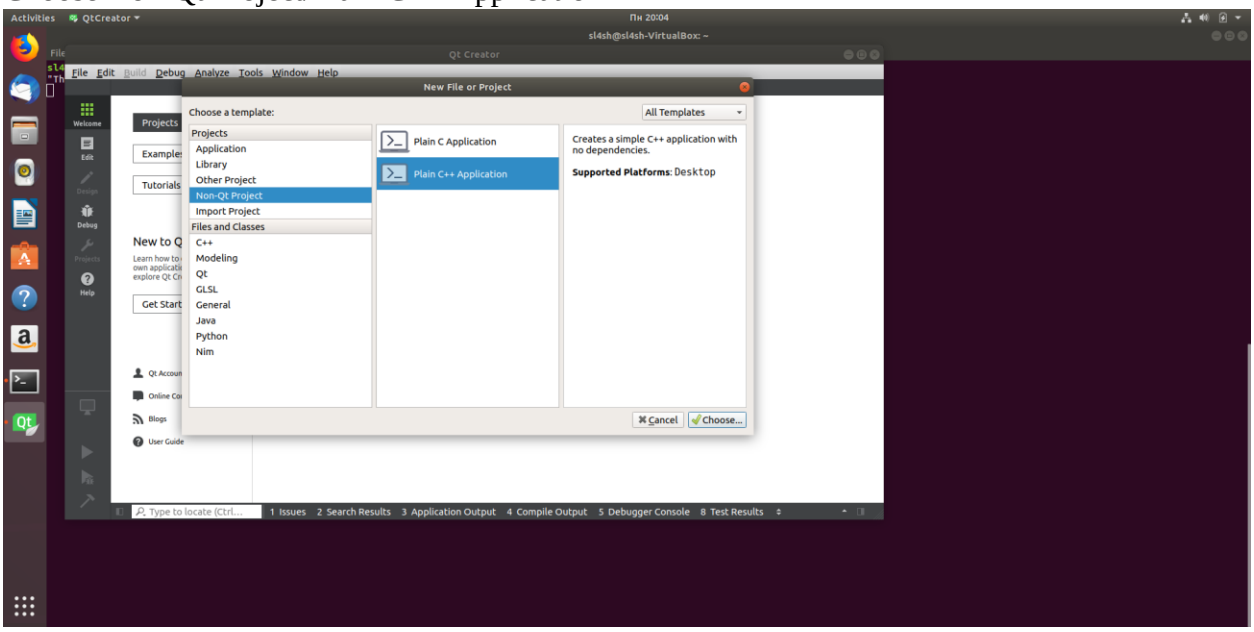


Ok, now we can run it

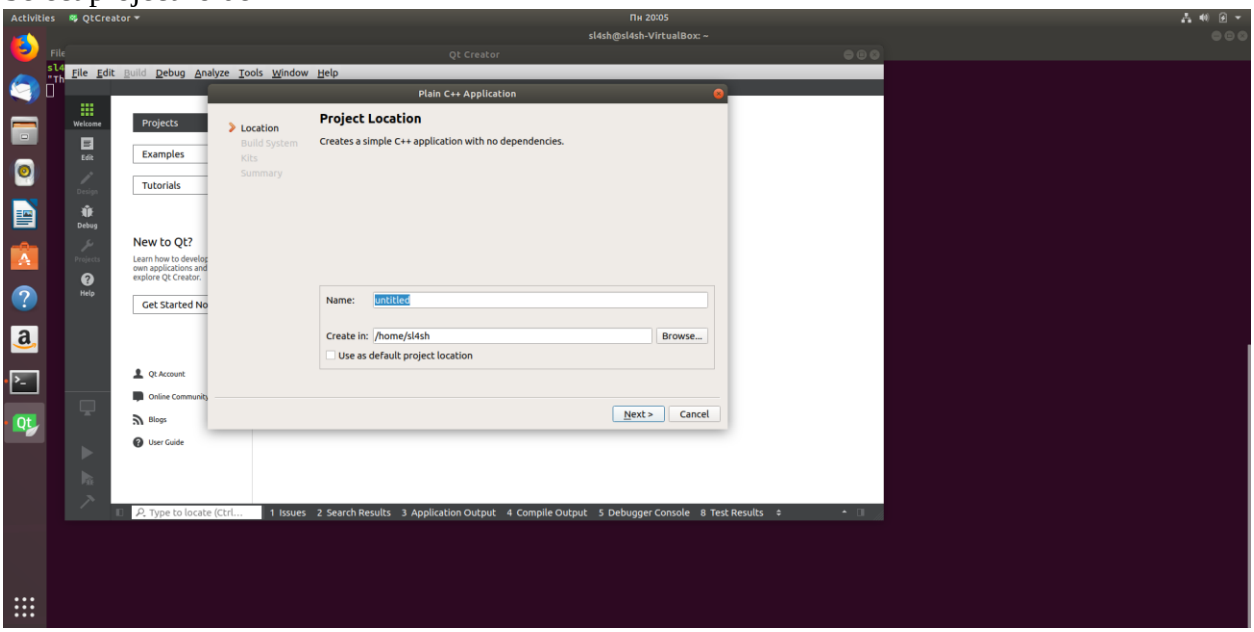


First project

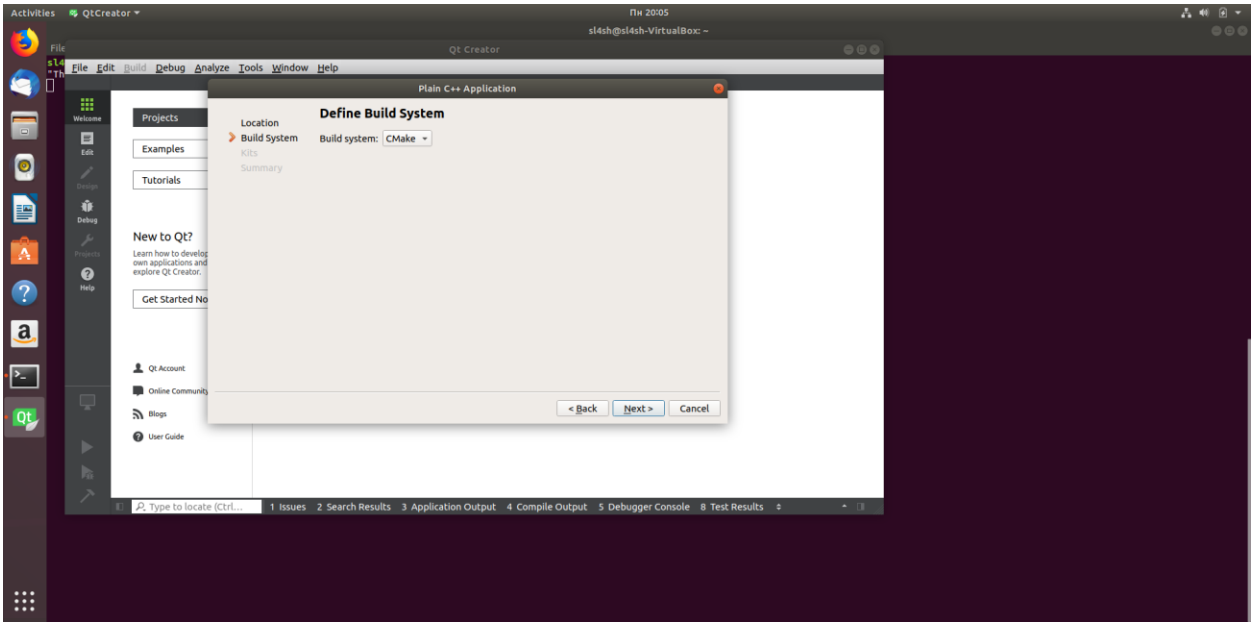
Choose Non-Qt Project/Plain C++ Application

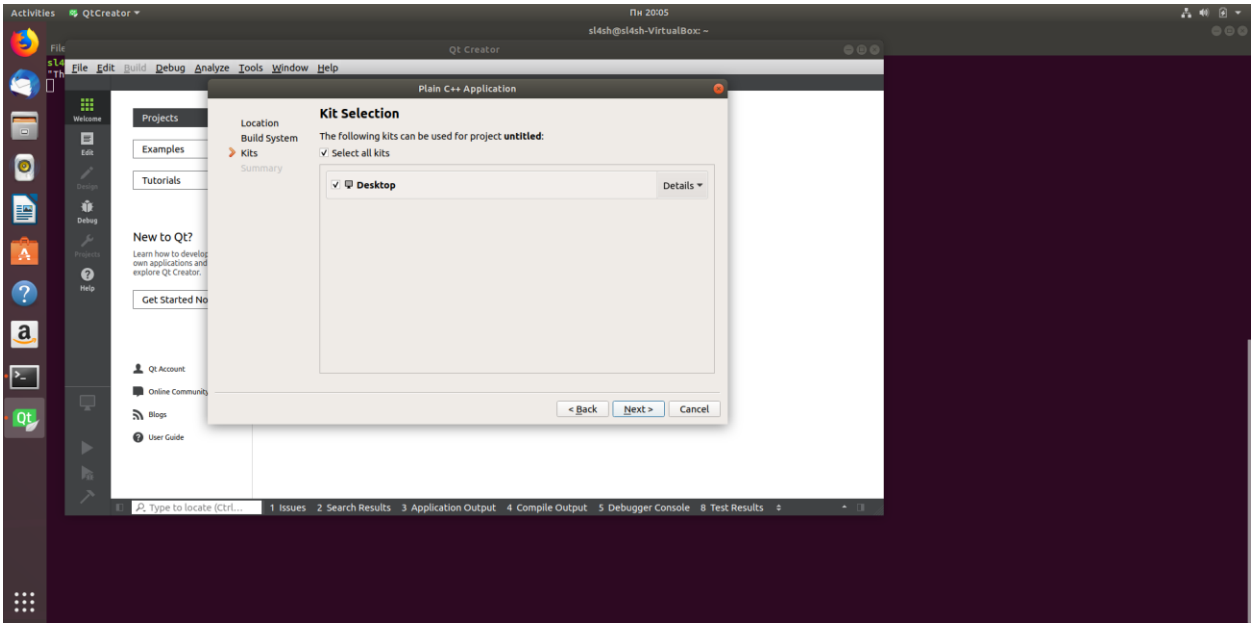


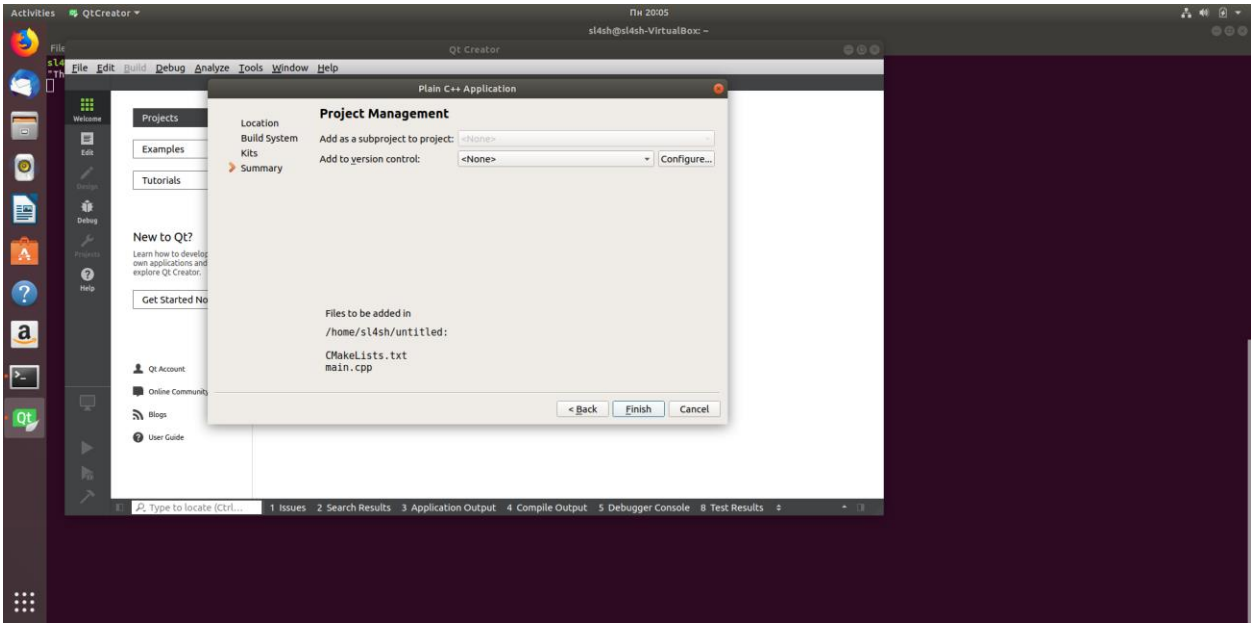
Select project folder



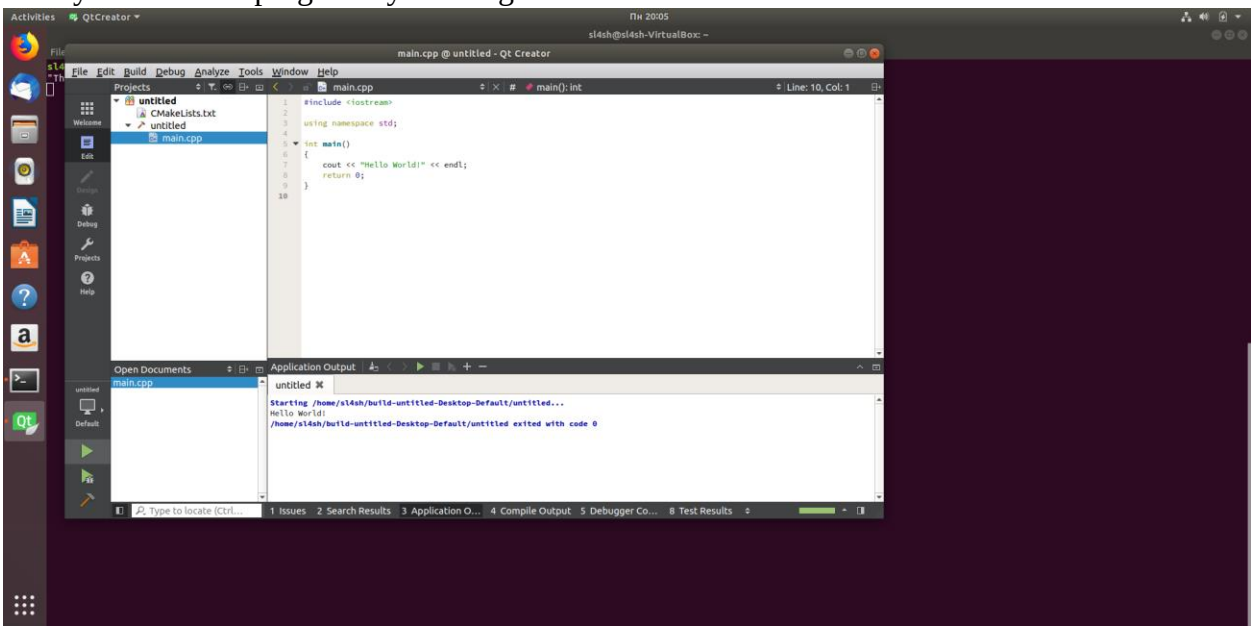
Select CMake





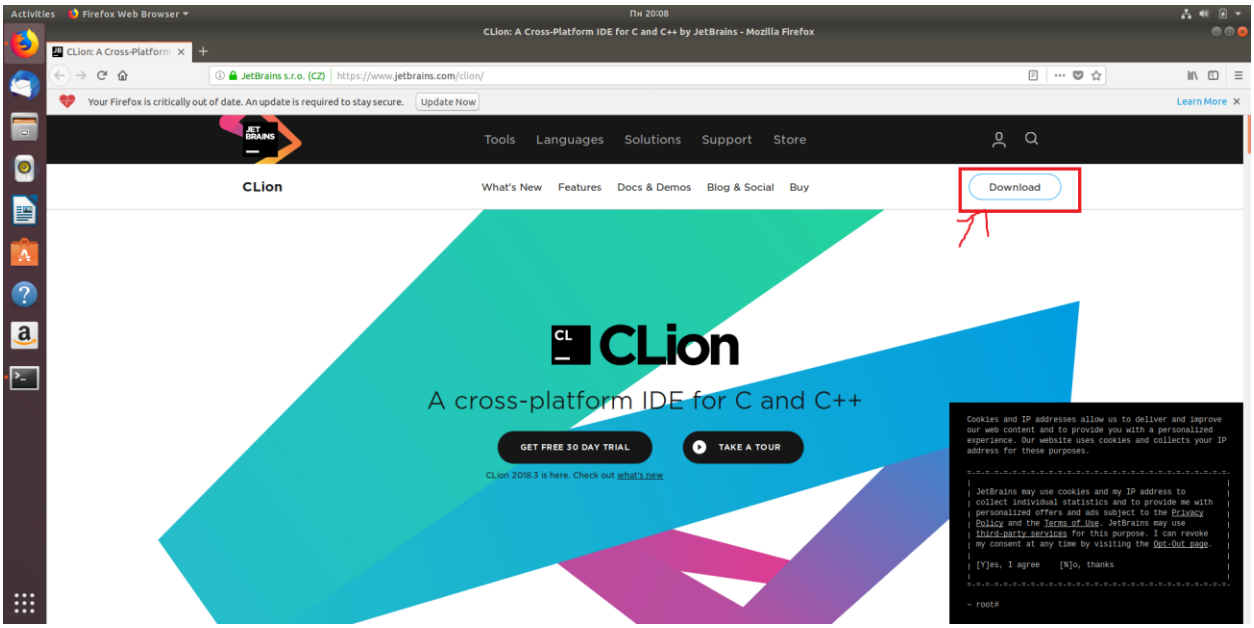


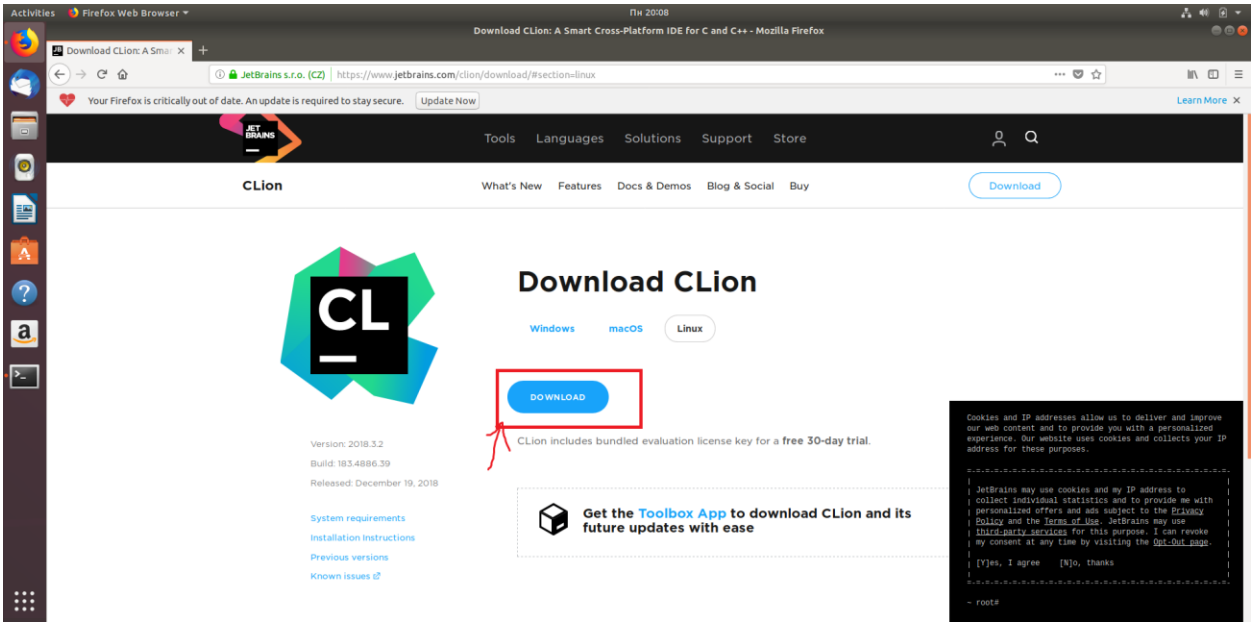
Now you can run a program by clicking Run button

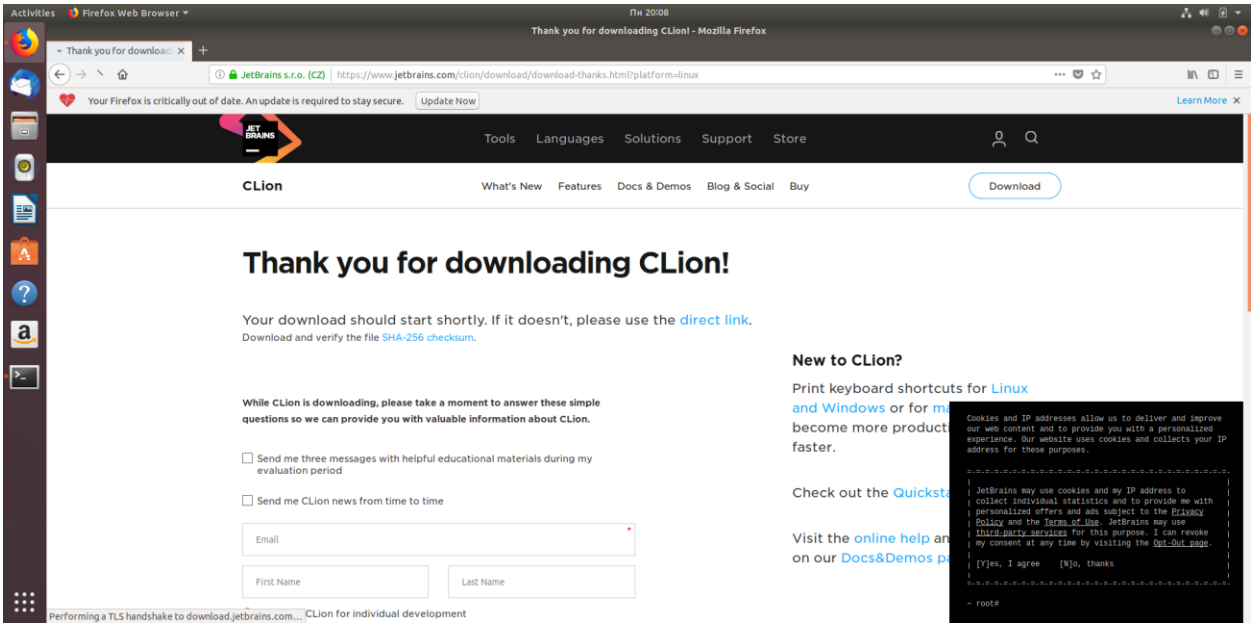


CLion

CLion download






Activities
Firefox Web Browser
Пн 20:08
Thank you for downloading CLion! - Mozilla Firefox
Thank you for download
JetBrains s.r.o. (CZ)
https://www.jetbrains.com/clion/download/download-thanks.html?platform=linux
Your Firefox is critically out of date. An update is required to stay secure.
Update Now
Learn More
Tools
Languages
Solutions
Support
Store
CLion
What's New
Features
Docs & Demos
Blog & Social
Buy
Download
Thank you for downloading CLion!
Your download should start shortly. If it doesn't, please use the direct link.
Download and verify the file SHA-256 checksum.
While CLion is downloading, please take a moment to answer these simple questions so we can provide you with valuable information about CLion.
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Send me CLion news from time to time
Email
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Last Name
Performing a TLS handshake to download.jetbrains.com...
CLion for individual development
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and Windows or for m
become more product
faster.
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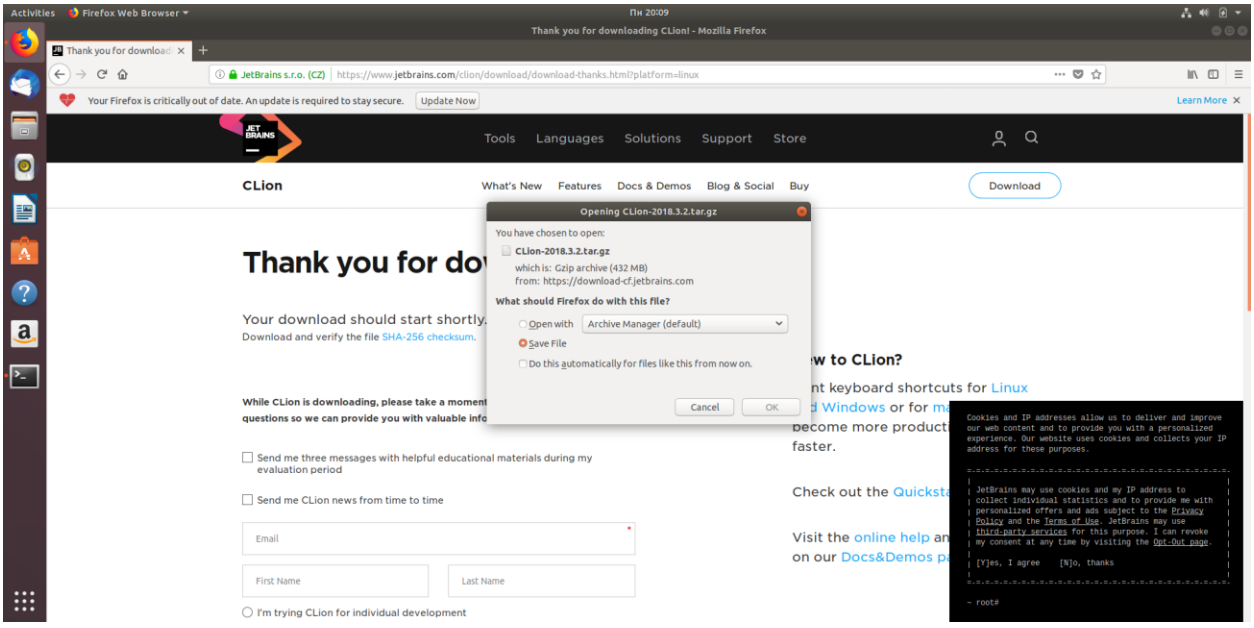
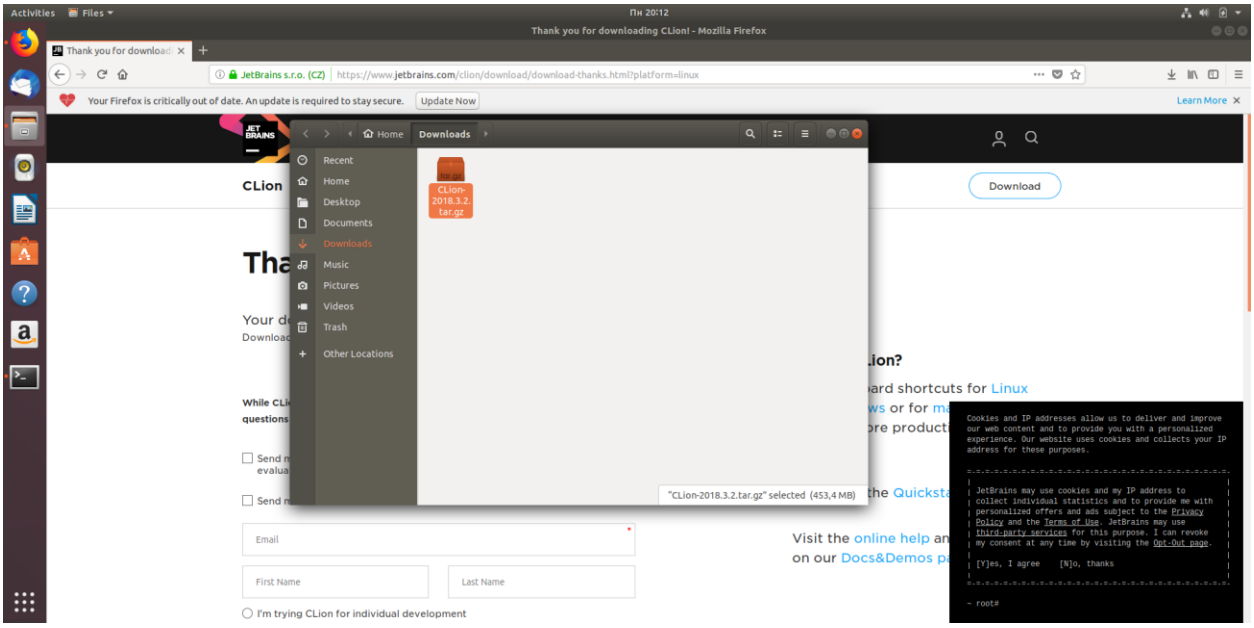
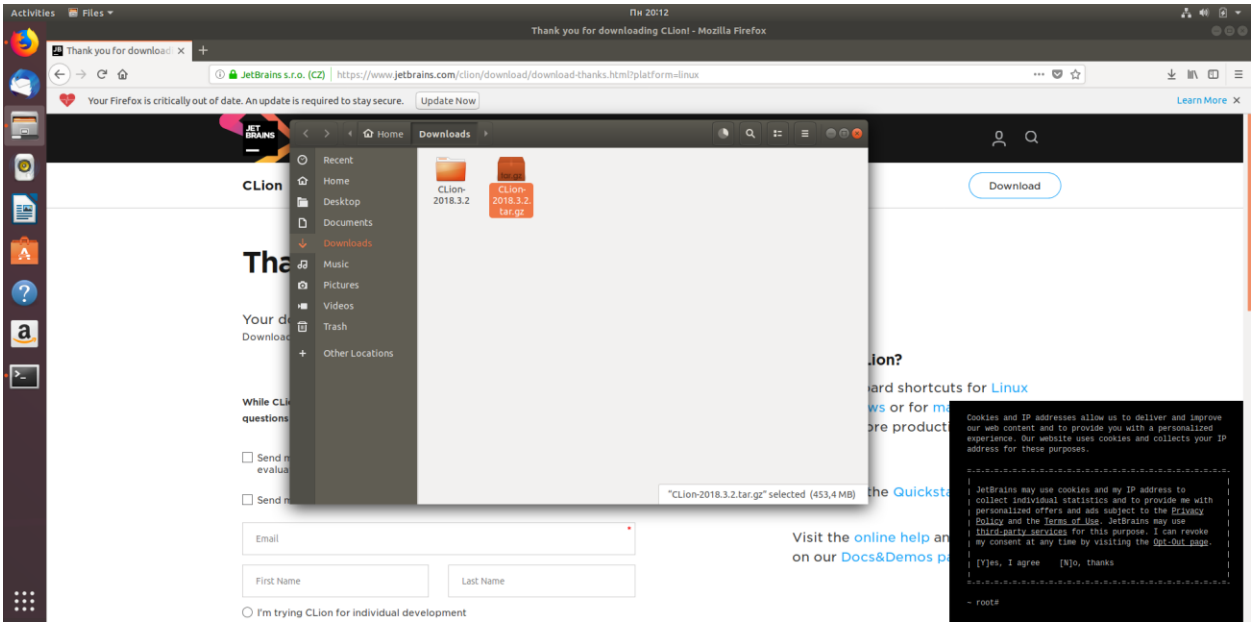
on our Docs&Demos p
Cookies and IP addresses allow us to deliver and improve our web content and to provide you with a personalized experience. Our website uses cookies and collects your IP address for these purposes.
JetBrains may use cookies and my IP address to collect individual statistics and to provide me with personalized offers and ads subject to the Privacy Policy and the Terms of Use. JetBrains may use third-party services for this purpose. I can revoke my consent at any time by visiting the Opt-Out page.
[Y]es, I agree [N]o, thanks
~ root#


Activities
Firefox Web Browser
Пн 20:09
Thank you for downloading CLion! - Mozilla Firefox
Opening CLion-2018.3.2.tar.gz
You have chosen to open:
CLion-2018.3.2.tar.gz
which is: Gzip archive (432 MB)
from: https://download-cf.jetbrains.com
What should Firefox do with this file?
Open with
Archive Manager (default)
Save File
Do this automatically for files like this from now on.
Cancel
OK
Thank you for do
Your download should start shortly.
Download and verify the file SHA-256 checksum.
While CLion is downloading, please take a moment
questions so we can provide you with valuable info
Send me three messages with helpful educational materials during my evaluation period
Send me CLion news from time to time
Email
First Name
Last Name
I'm trying CLion for individual development
w to CLion?
nt keyboard shortcuts for Linux
Windows or for m
become more product
faster.
Check out the Quicksta
Visit the online help an
on our Docs&Demos p
Cookies and IP addresses allow us to deliver and improve our web content and to provide you with a personalized experience. Our website uses cookies and collects your IP address for these purposes.
JetBrains may use cookies and my IP address to collect individual statistics and to provide me with personalized offers and ads subject to the Privacy Policy and the Terms of Use. JetBrains may use third-party services for this purpose. I can revoke my consent at any time by visiting the Opt-Out page.
[Y]es, I agree [N]o, thanks
~ root#

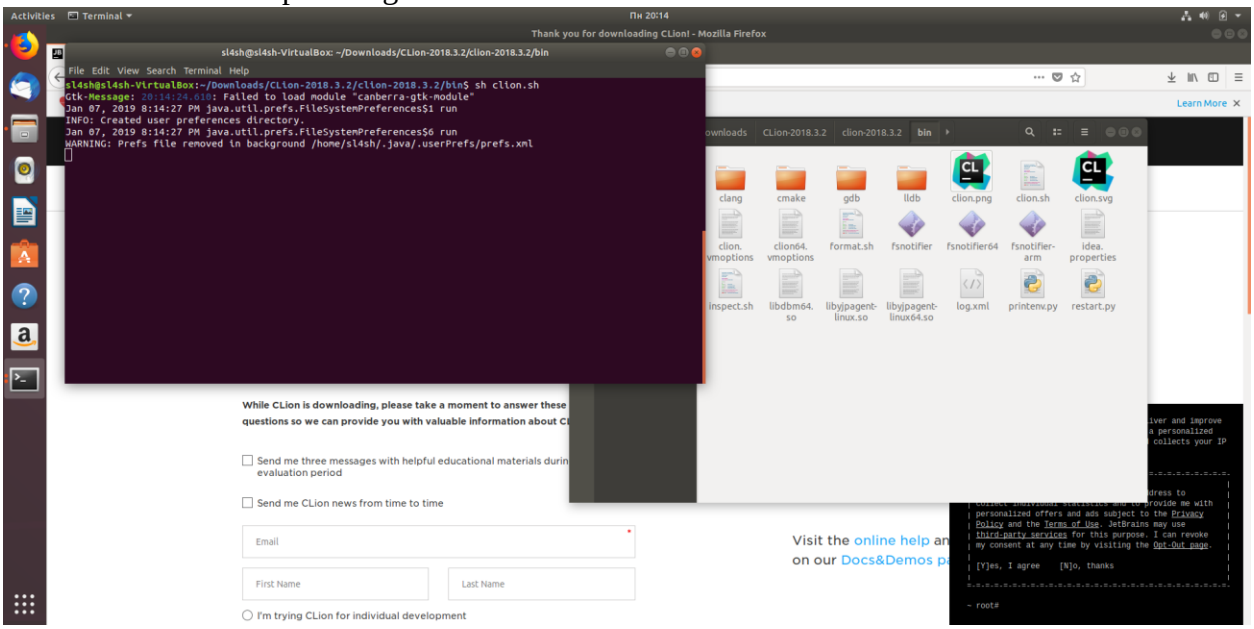
CLion installation

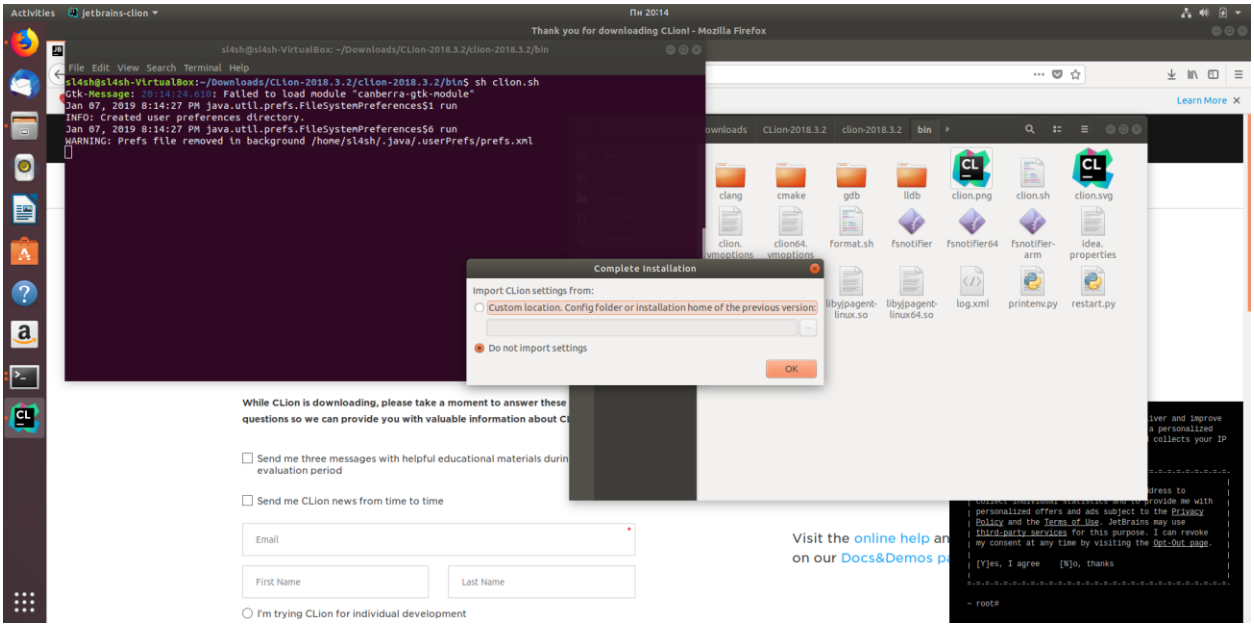
Extract folder from archive

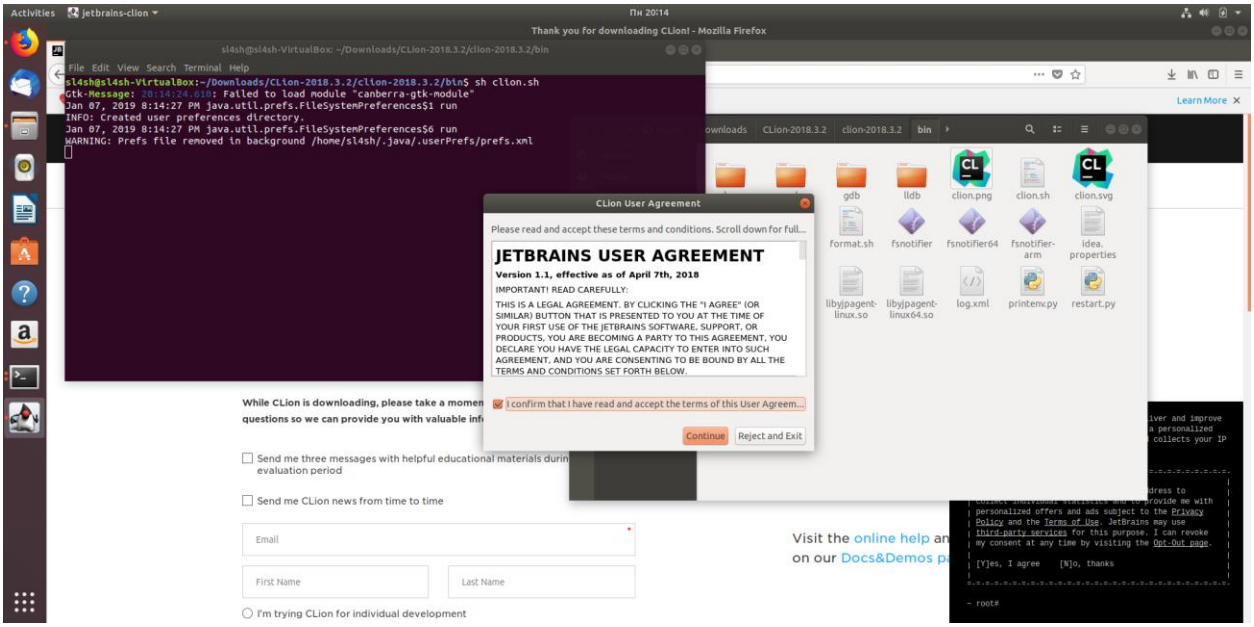




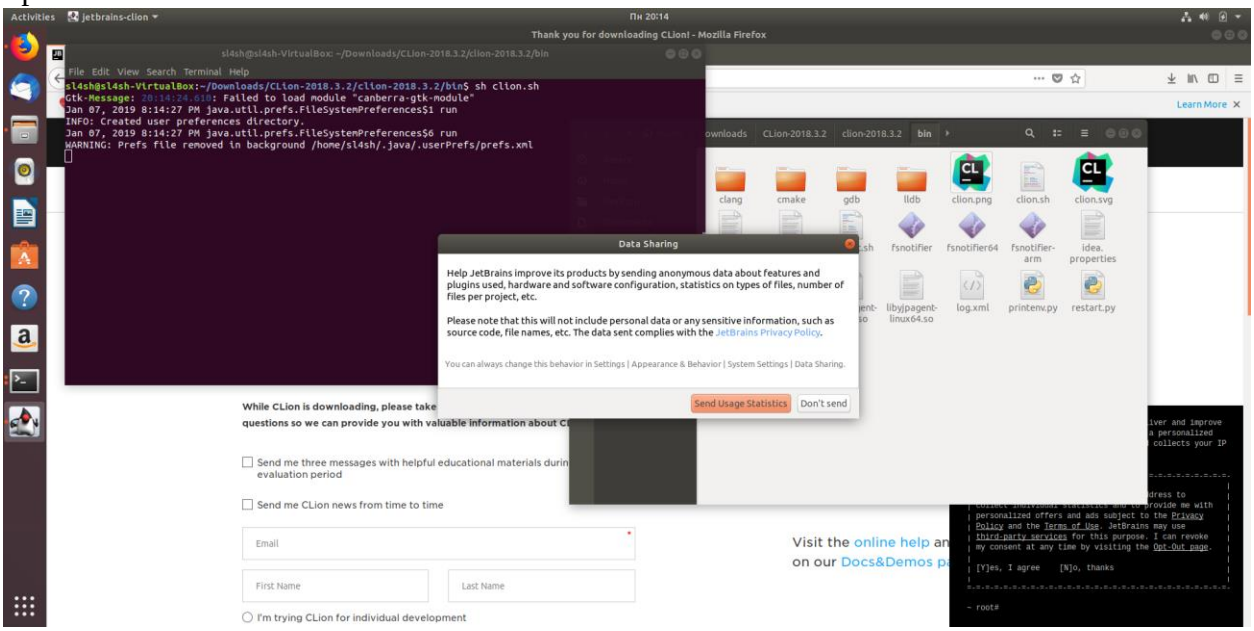
Then run clion.sh script through terminal



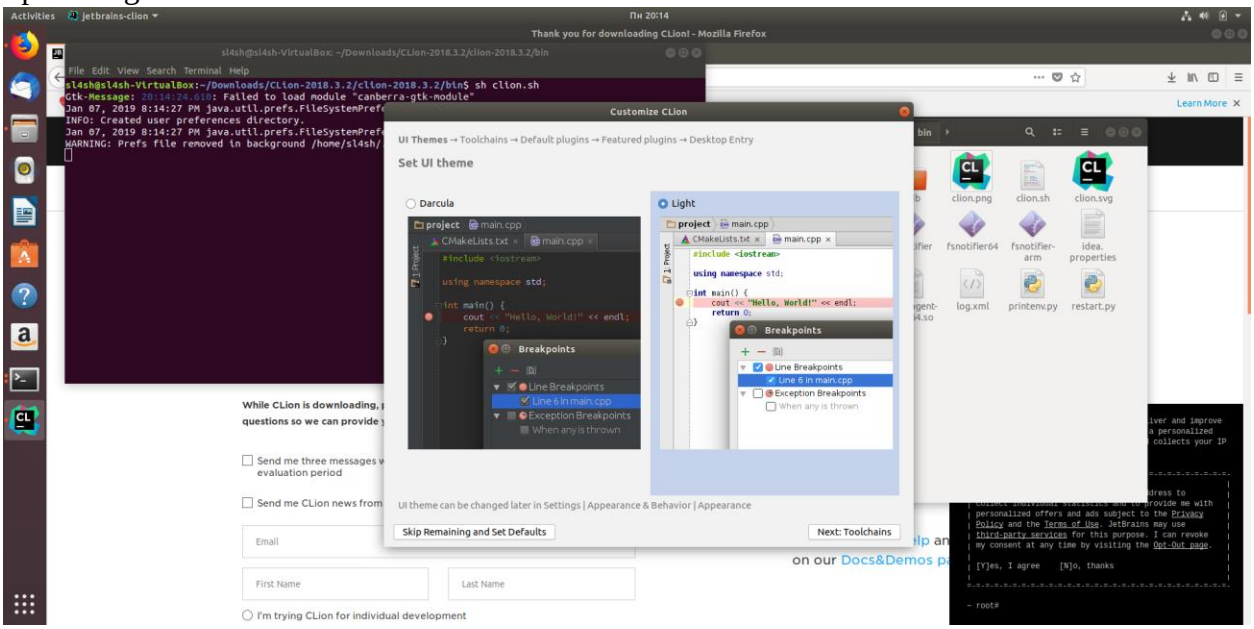




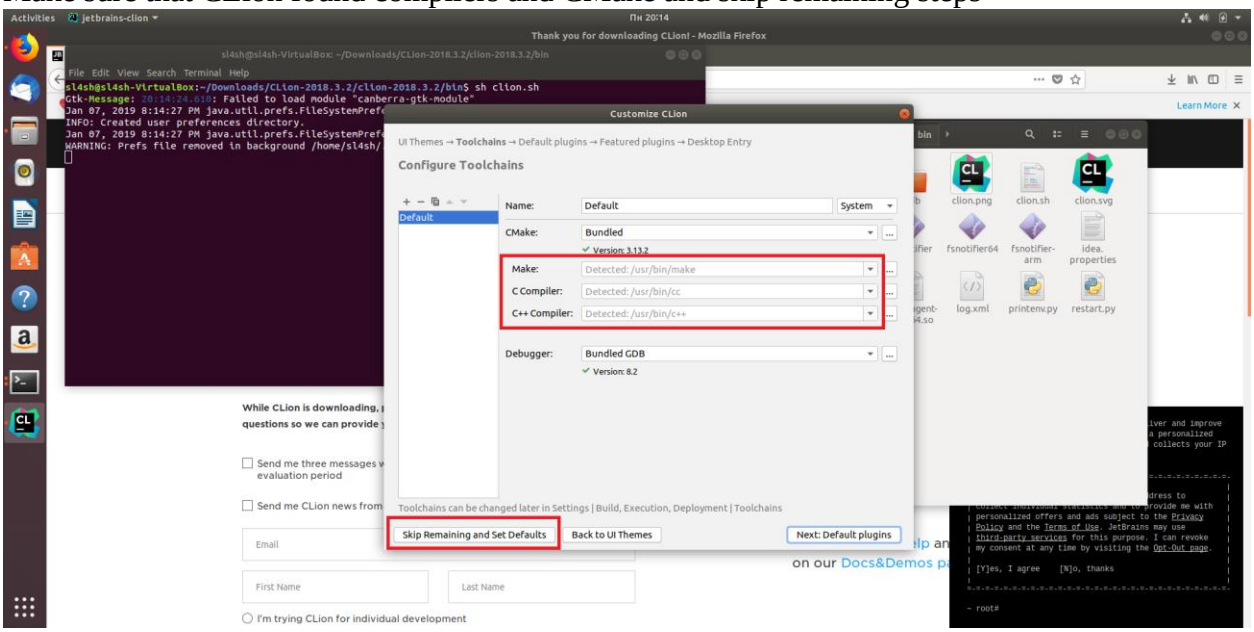
I prefer not to send



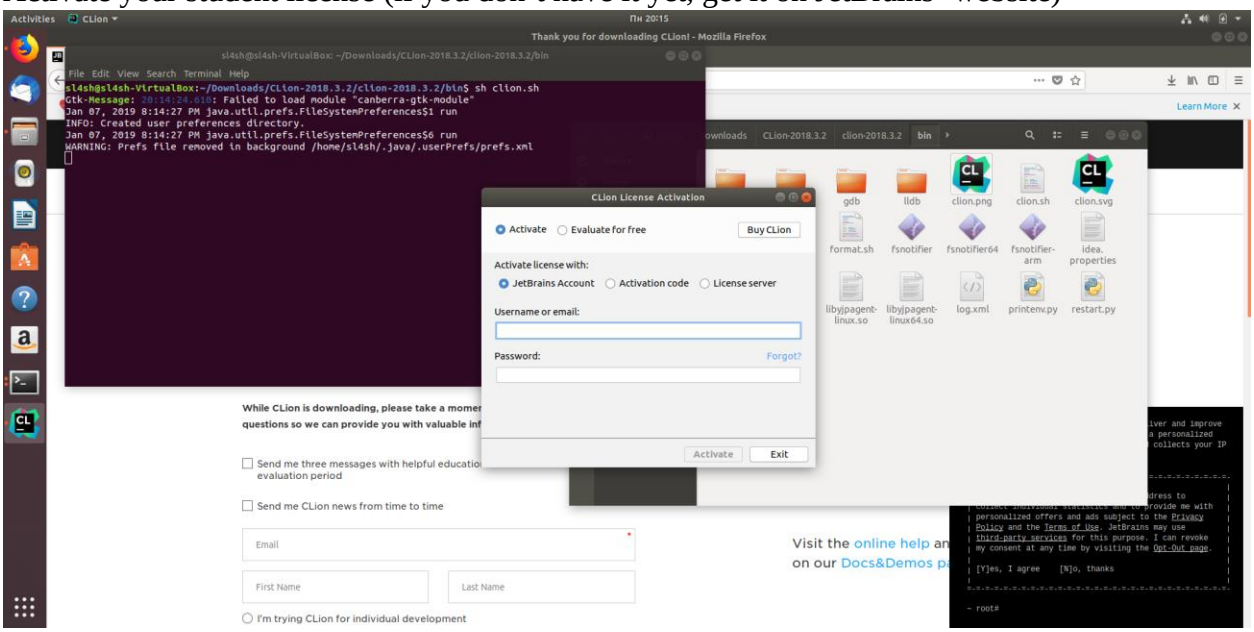
I prefer light theme



Make sure that CLion found compilers and CMake and skip remaining steps

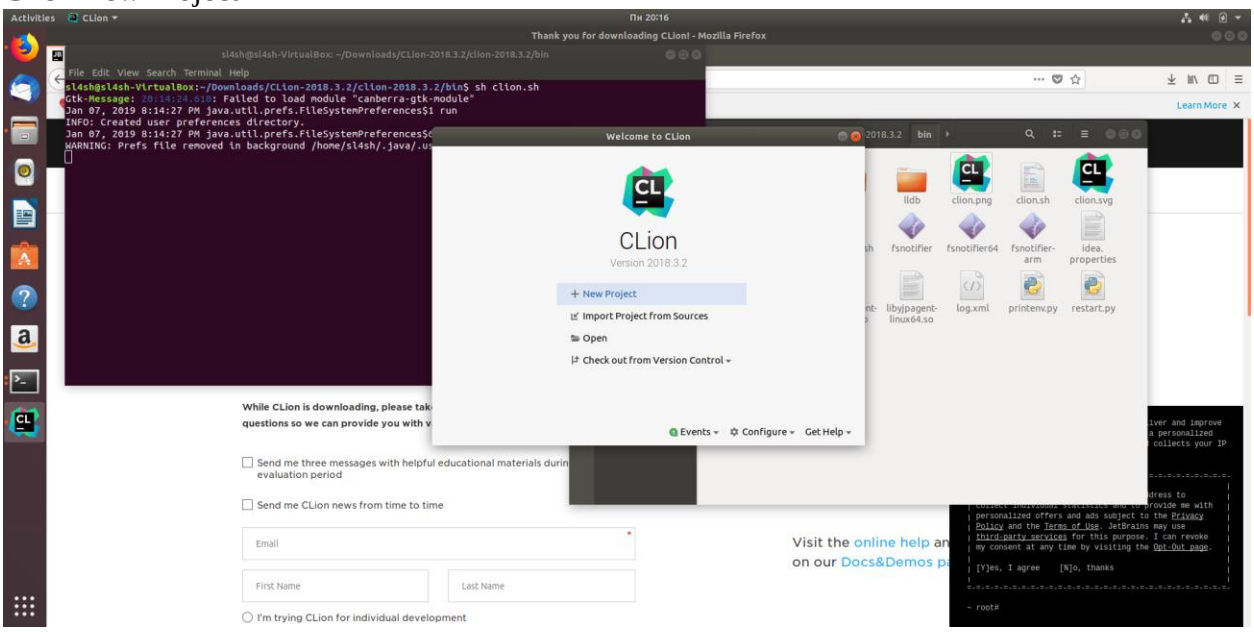


Activate your student license (if you don’t have it yet, get it on JetBrains’ website)

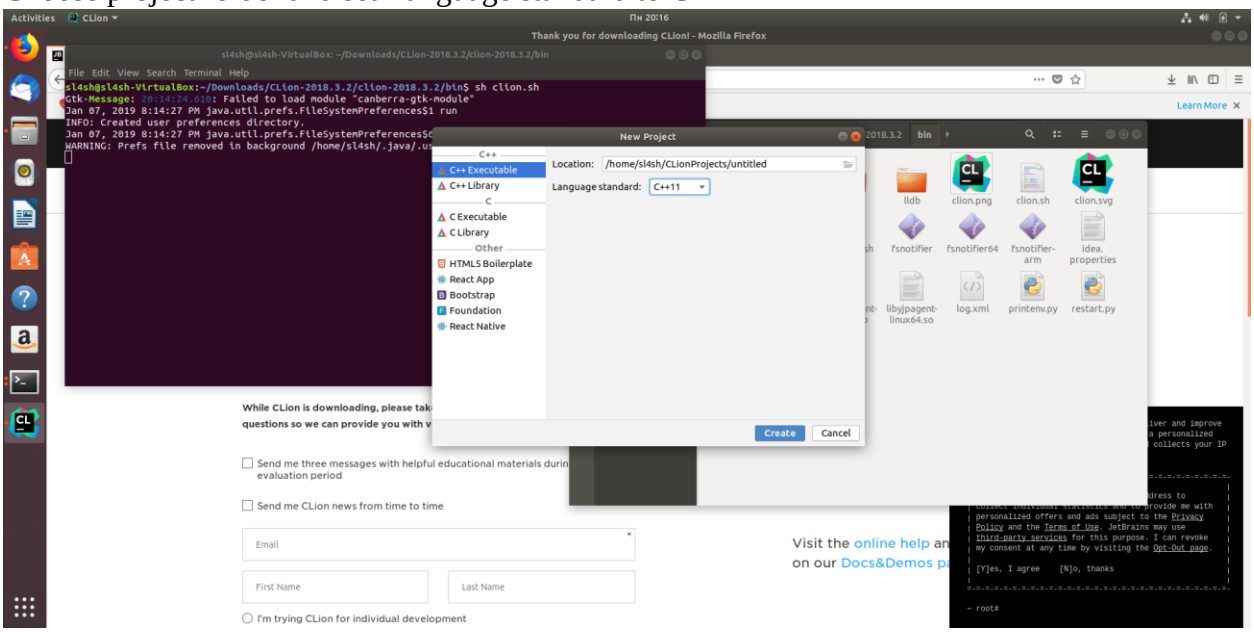


First project

Click New Project



Choose project folder and set Language standard to C++11



Now you can run this program by clicking Run button