

## GUIDE

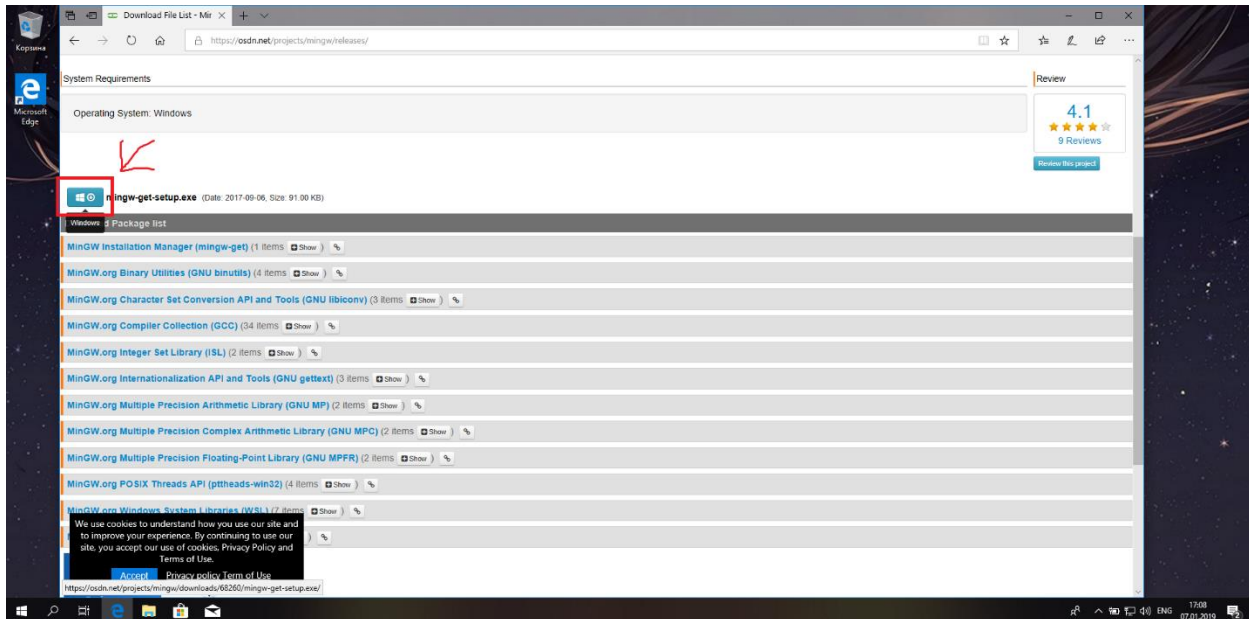
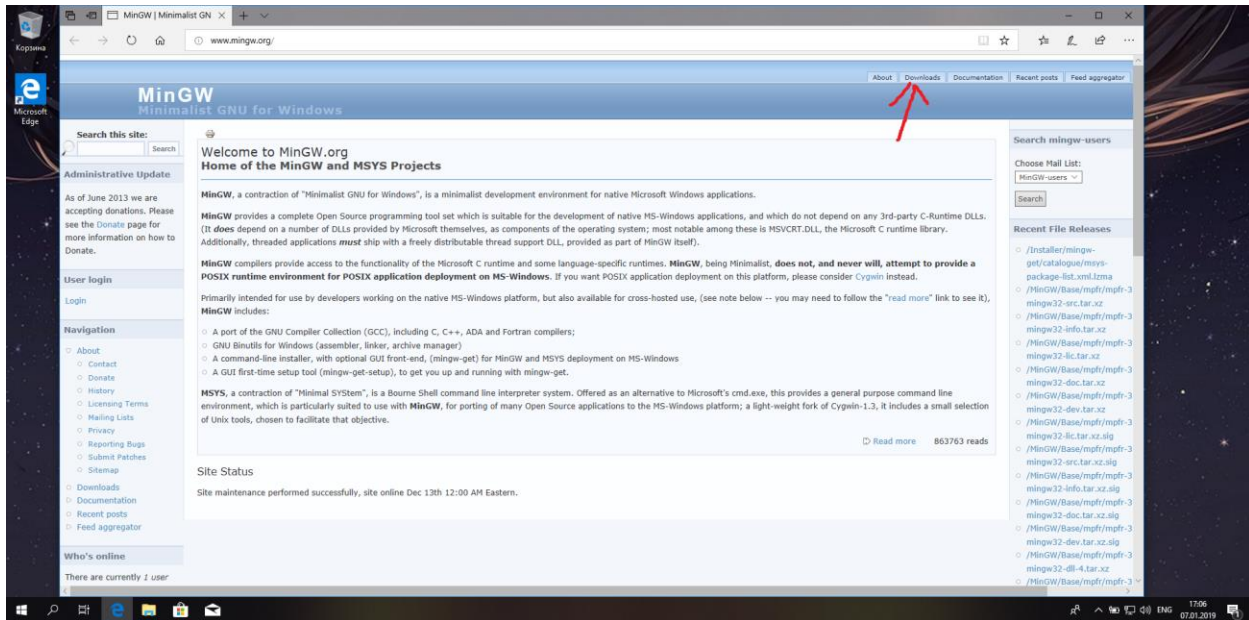
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# Development tools for Windows(10) installation

## C\C++ compiler and CMake installation

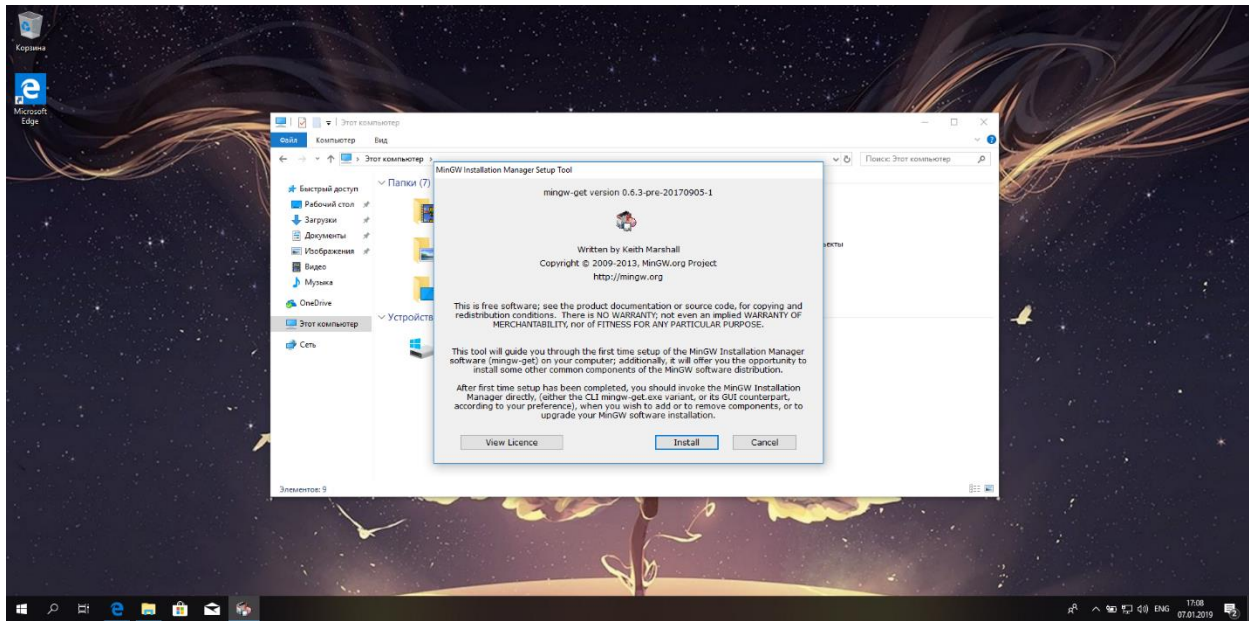
### Mingw download

<http://mingw.org/>

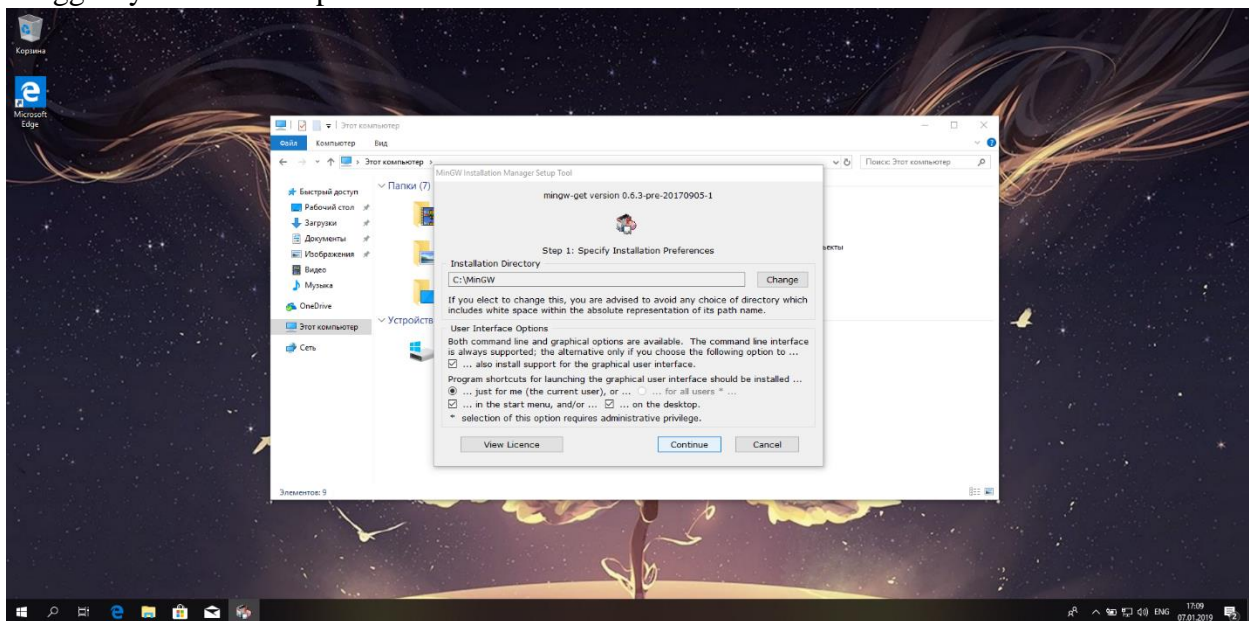


# Mingw installation

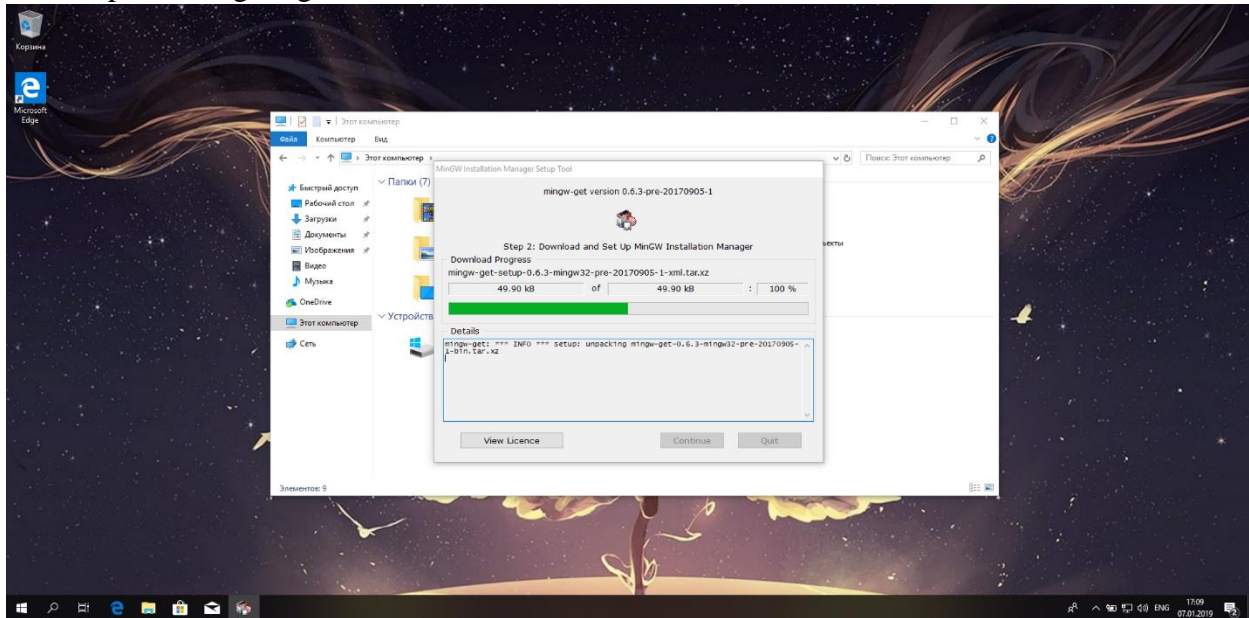
Click install



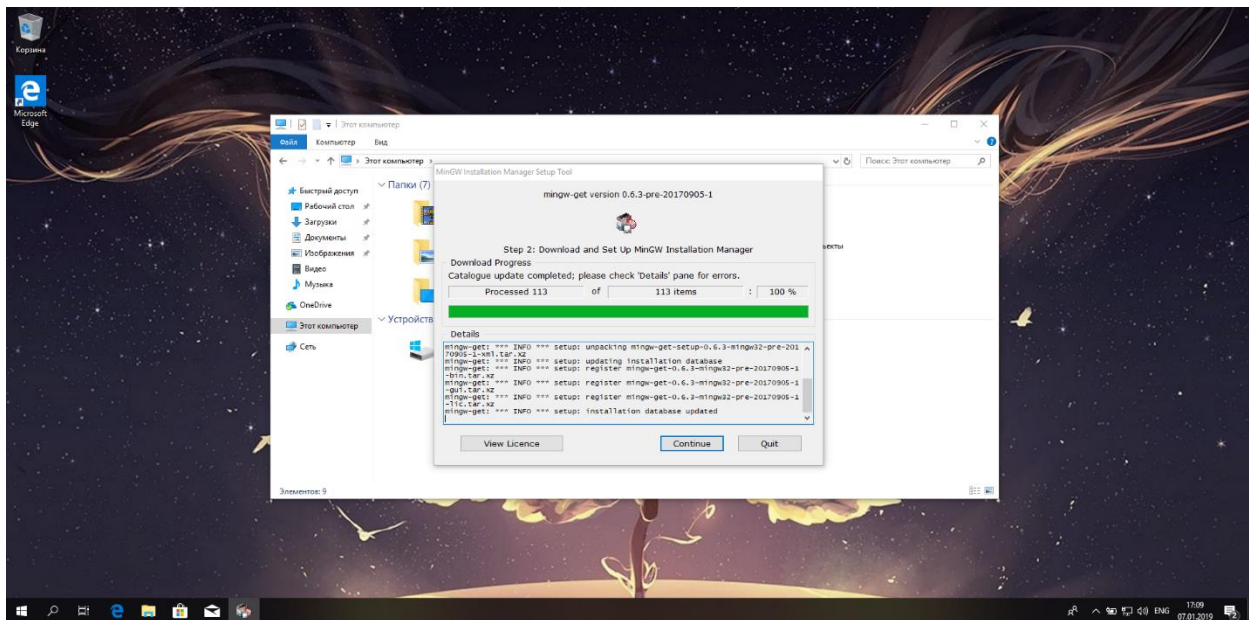
I suggest you leave all options as on this screenshot



Just keep watching on green bar

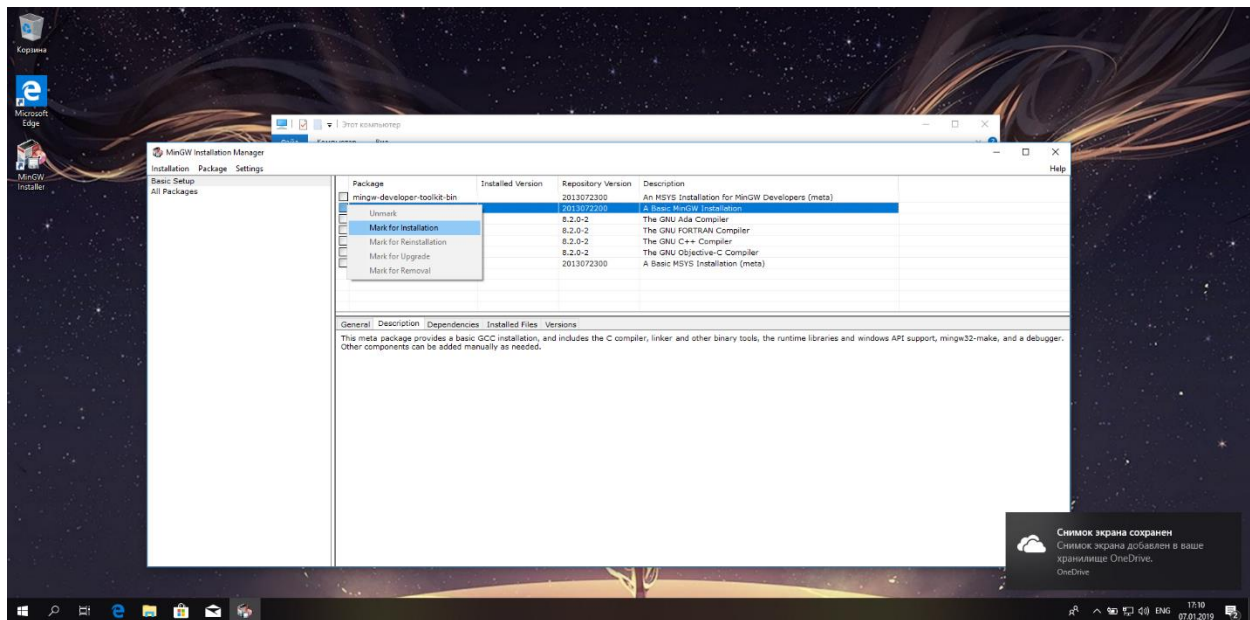
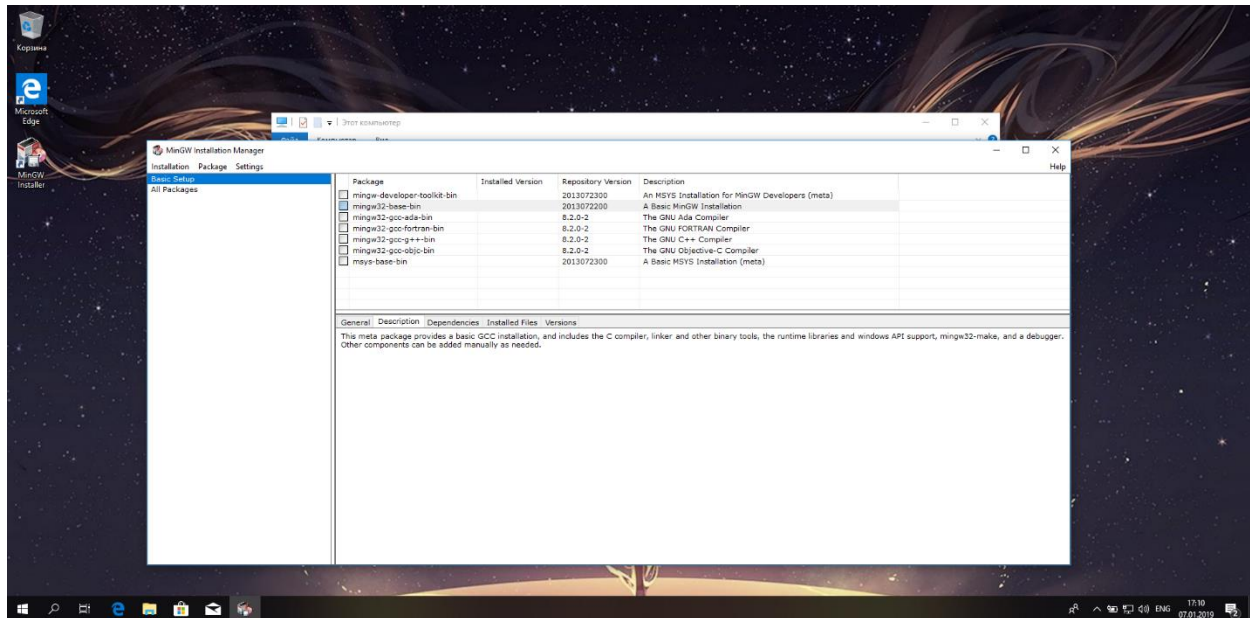


Click Continue

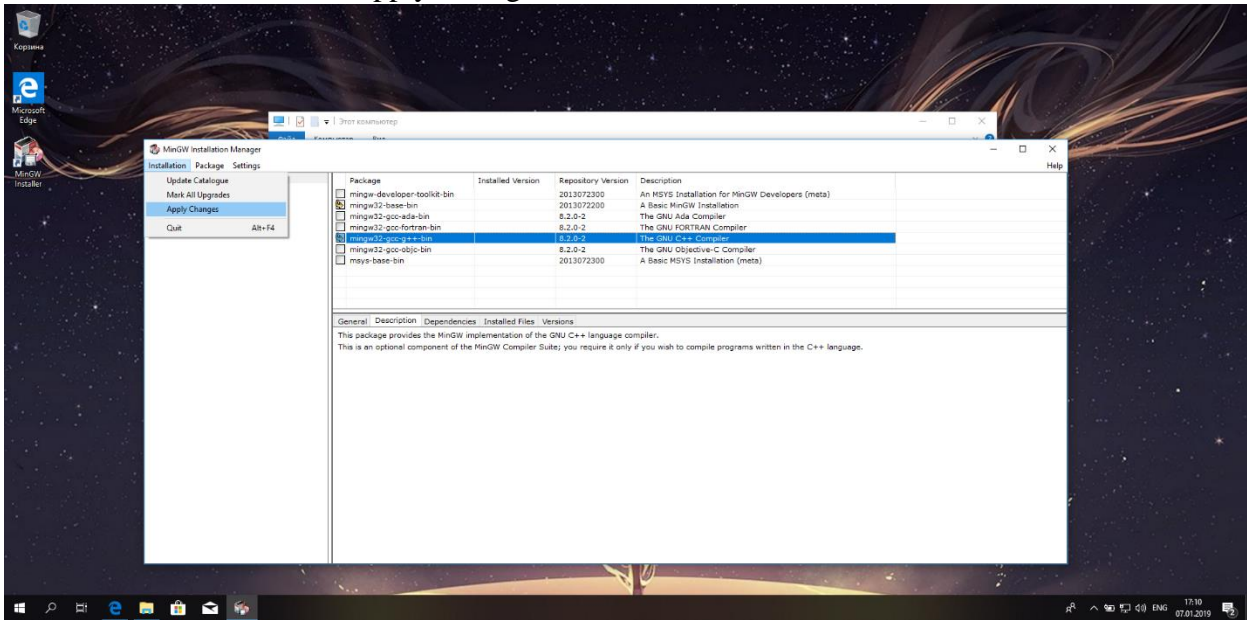




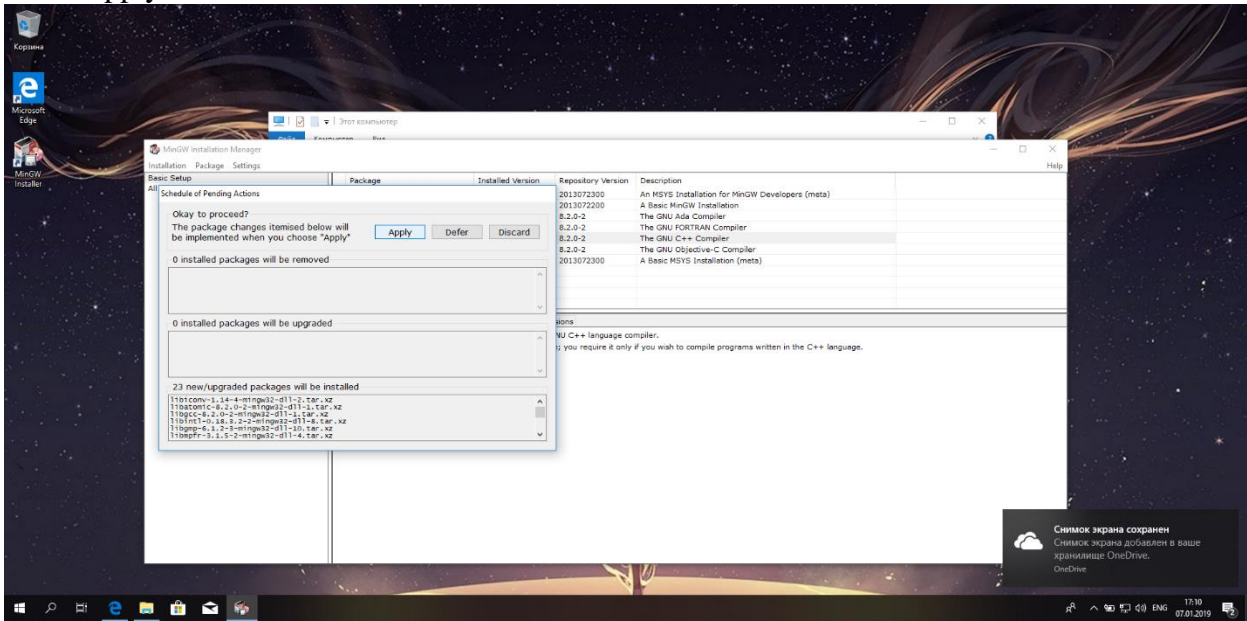
Then you'll see this window. We need to install only mingw32-base-bin and mingw32-gcc-g++-bin



Click Installation and then Apply Changes

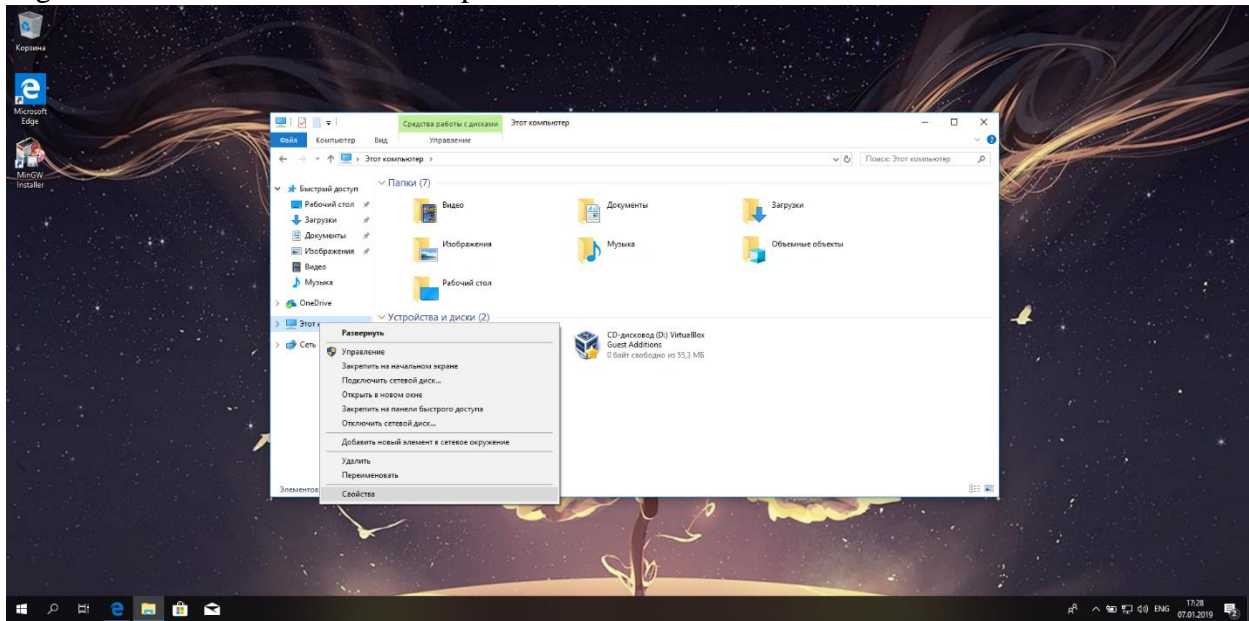


Click Apply

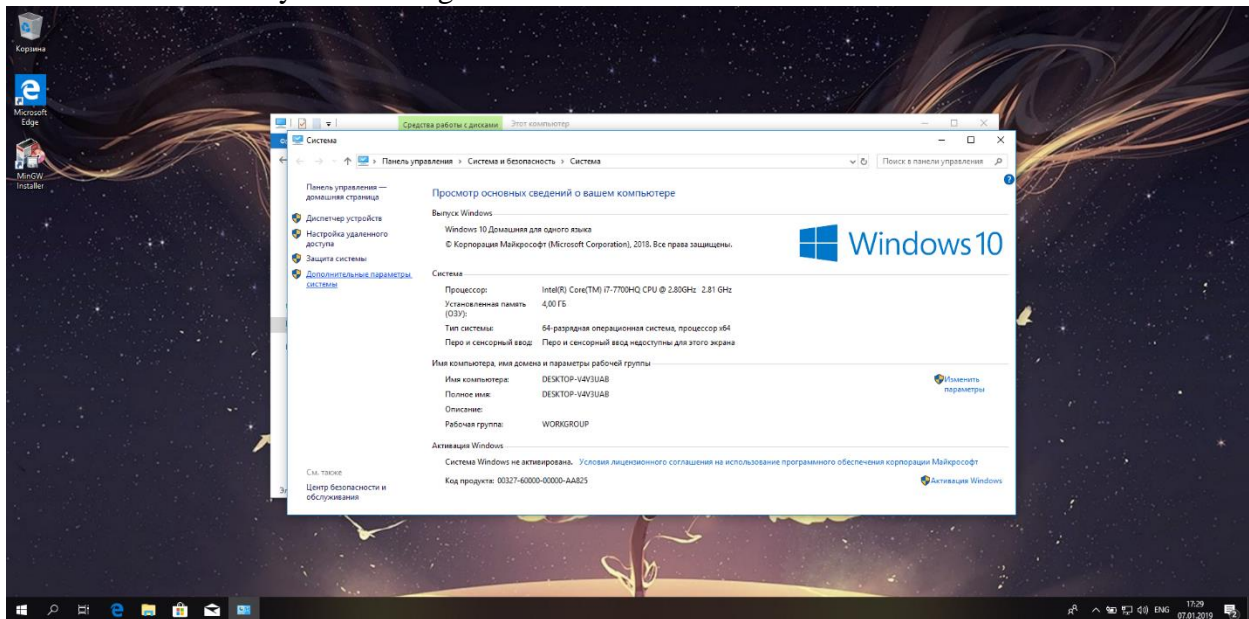


## Adding Mingw compilers' folder to PATH variable

Rightclick on This PC and then Properties

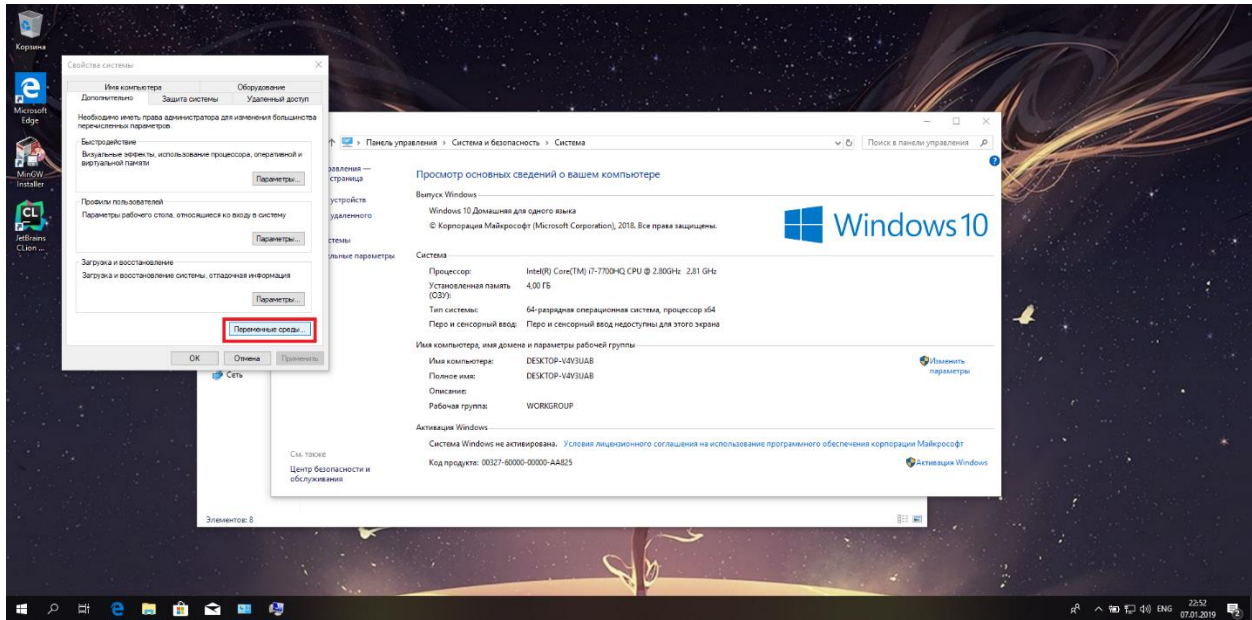


Click on Advanced System Settings

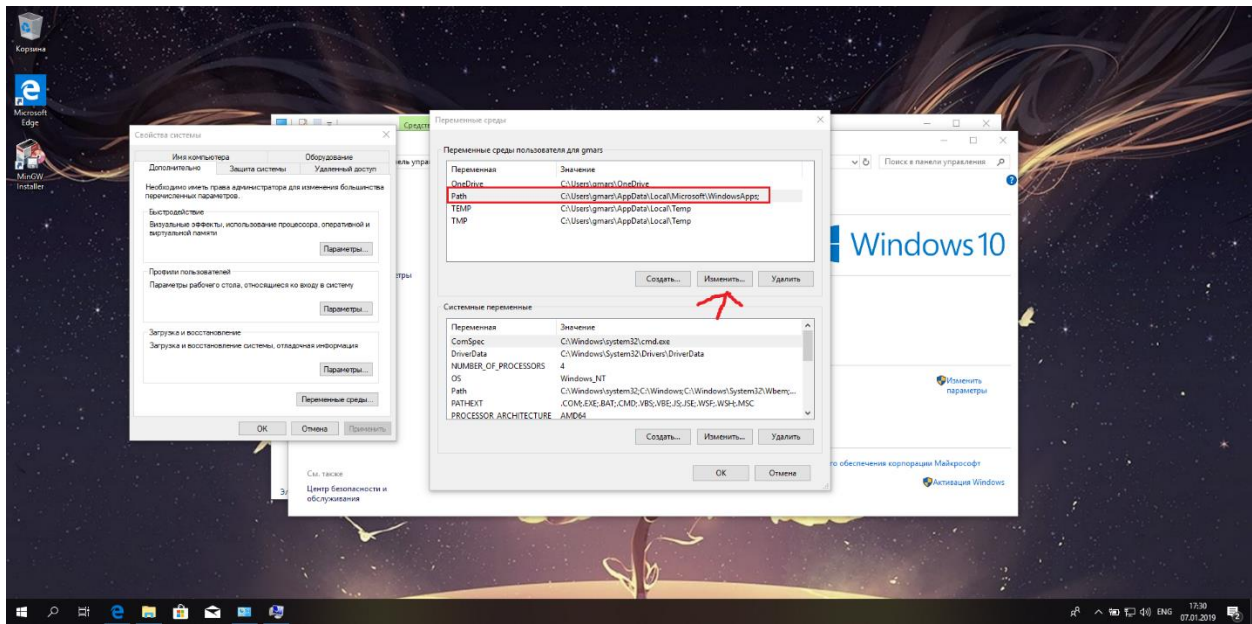




Click on Environment Variables

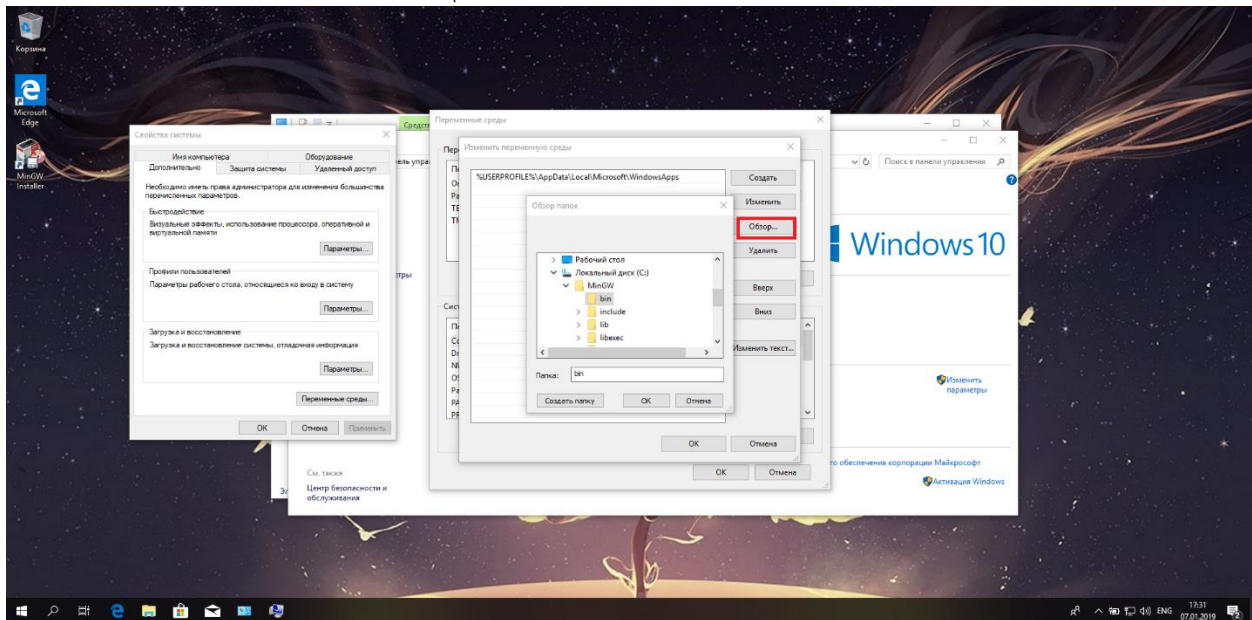


Choose PATH variable and click Edit

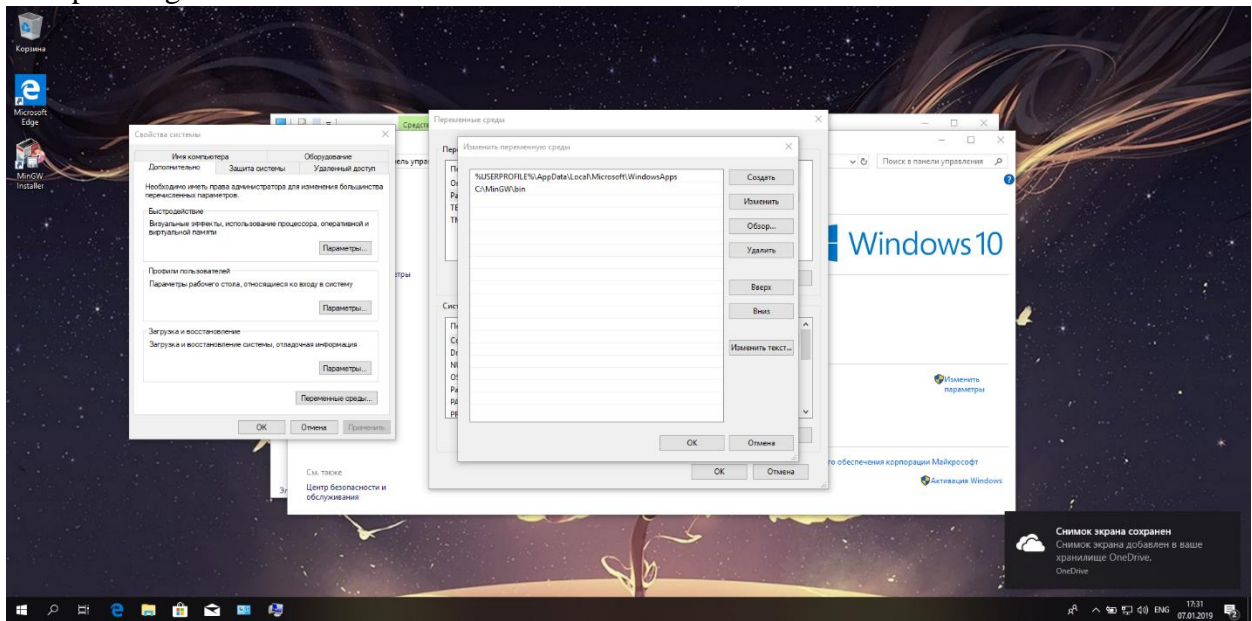




Click Browse and choose MinGW\bin folder



Accept changes



# CMake download

Build with CMake. Build with Confidence.

Learn How

CMake is an open-source, cross-platform family of tools designed to build, test and package software. CMake is used to control the software compilation process using simple platform and compiler independent configuration files, and generate native makefiles and workspaces that can be used in the compiler environment of your choice. The suite of CMake tools were created by Kitware in response to the need for a powerful, cross-platform build environment for open-source projects such as ITK and VTK.

CMake is part of Kitware's collection of commercially supported **open-source platforms** for software development.

Recent Posts

**CMake 3.13.2 available for download**

We are pleased to announce that CMake 3.13.2 is now available for download. Please use the latest release from our download page: <https://cmake.org/download/> CMake 3.13.0 ... [Read More](#)

Platform Files

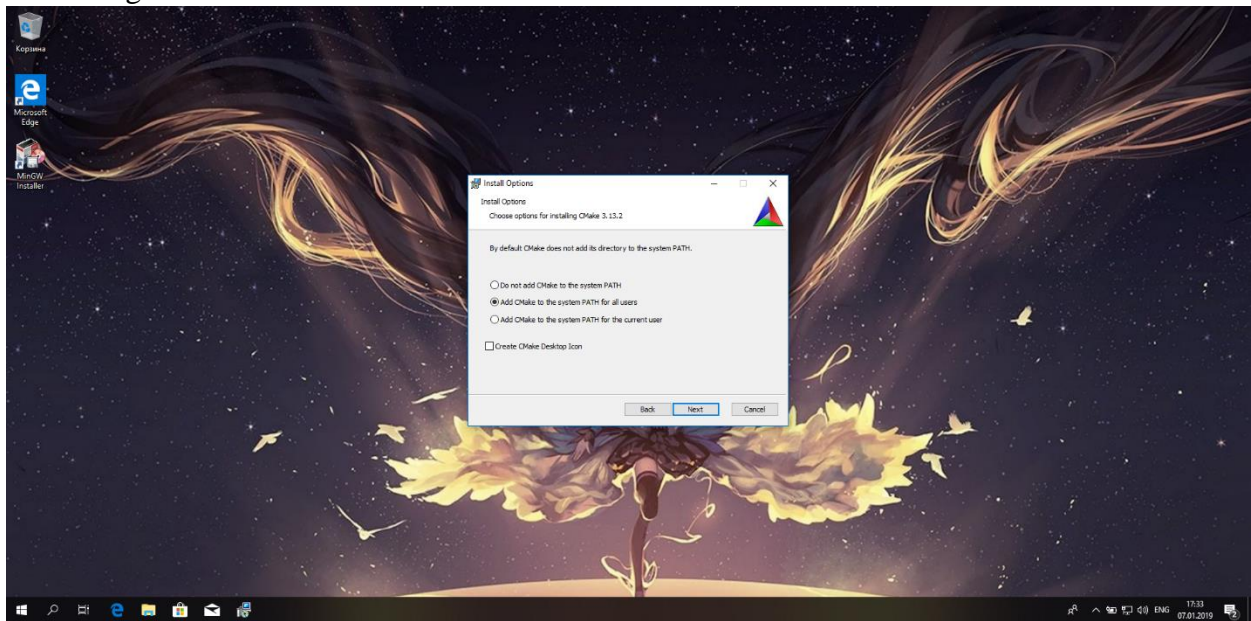
Unix/Linux Source (has \n line feeds)	cmake-3.13.2.tar.gz
	cmake-3.13.2.tar.Z
Windows Source (has \r\n line feeds)	cmake-3.13.2.zip

Binary distributions:

Platform	Files
Windows win64-x64 installer: <b>Installer tool has changed. Uninstall CMake 3.4 or lower first</b>	cmake-3.13.2-win64-x64.msi
Windows win64-x64 ZIP	cmake-3.13.2-win64-x64.zip
Windows win32-x86 installer: <b>Installer tool has changed. Uninstall CMake 3.4 or lower first</b>	cmake-3.13.2-win32-x86.msi
Windows win32-x86 ZIP	cmake-3.13.2-win32-x86.zip
Mac OS X 10.7 or later	cmake-3.13.2-Darwin-x86_64.dmg
	cmake-3.13.2-Darwin-x86_64.tar.gz
Linux x86_64	cmake-3.13.2-Linux-x86_64.sh

## CMake installation

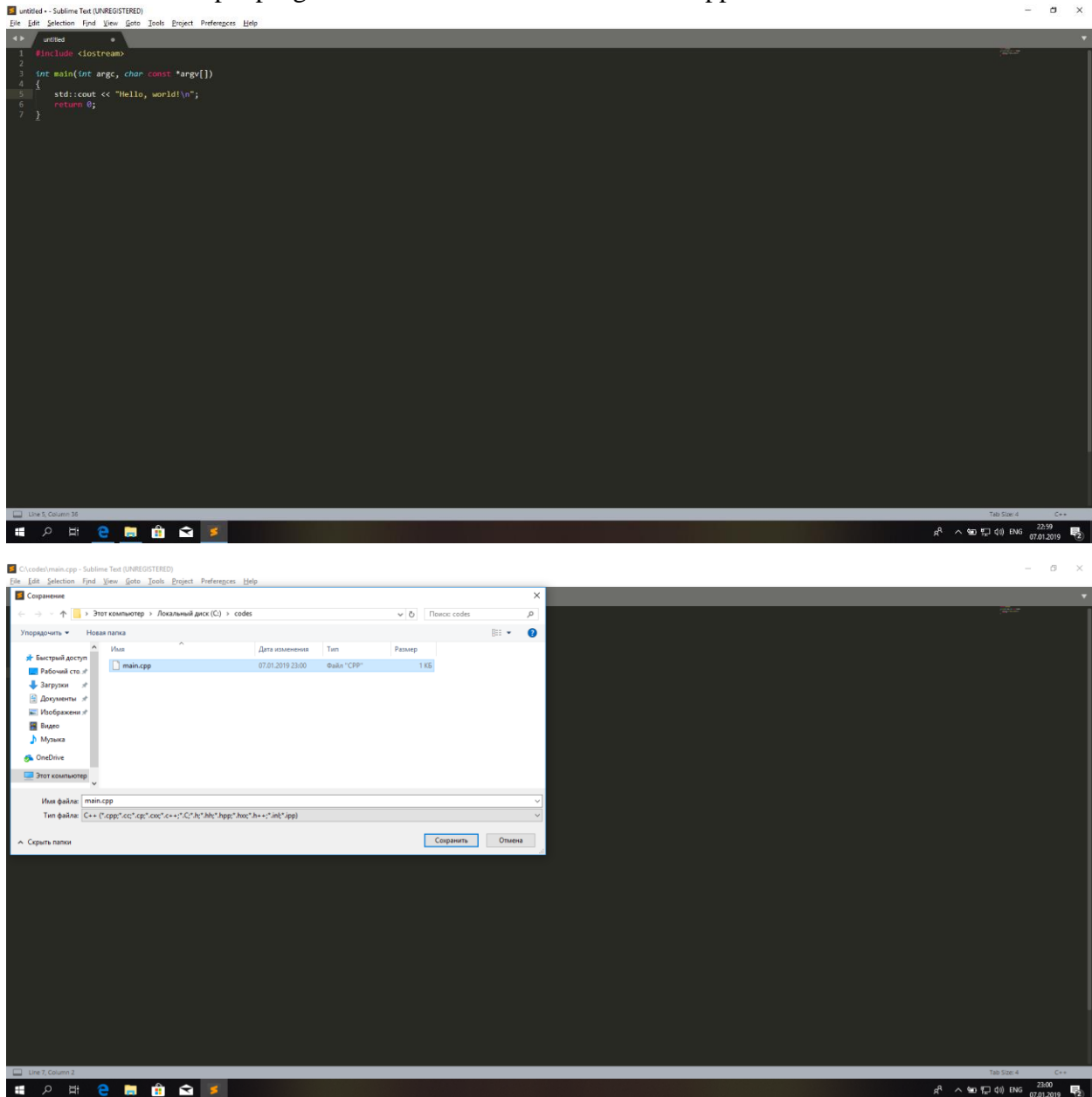
Don't forget to add CMake to PATH



# Developing C\C++ programs without IDE

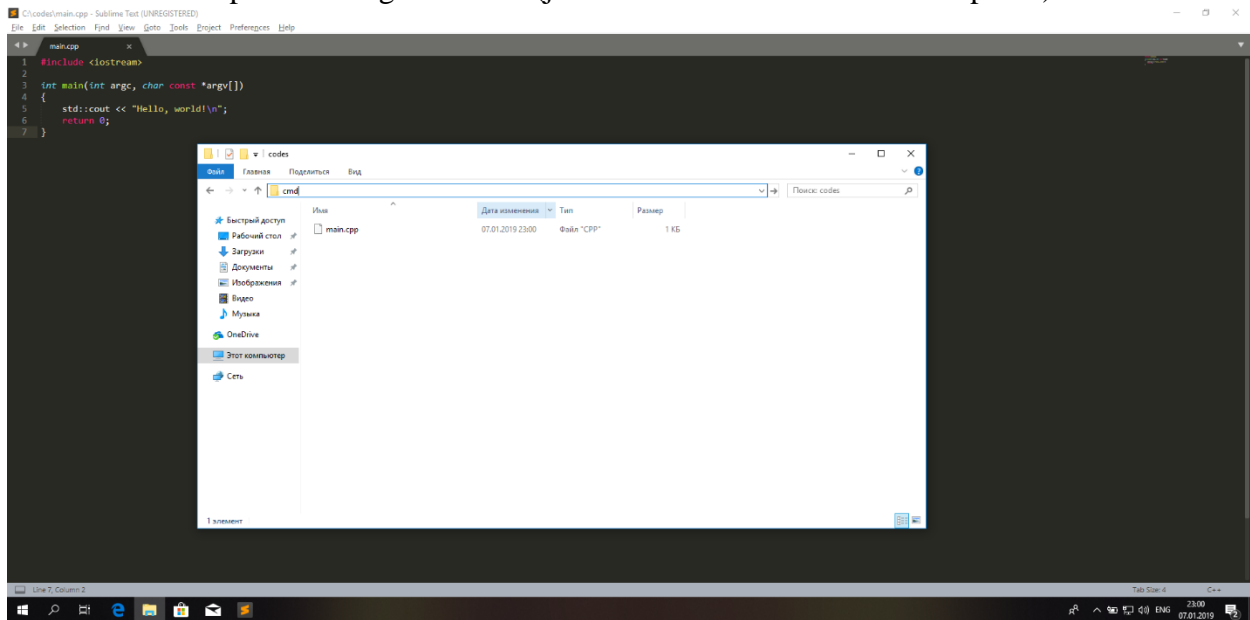
Now we can already create programs with text editors (for example I'll use Sublime Editor)

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

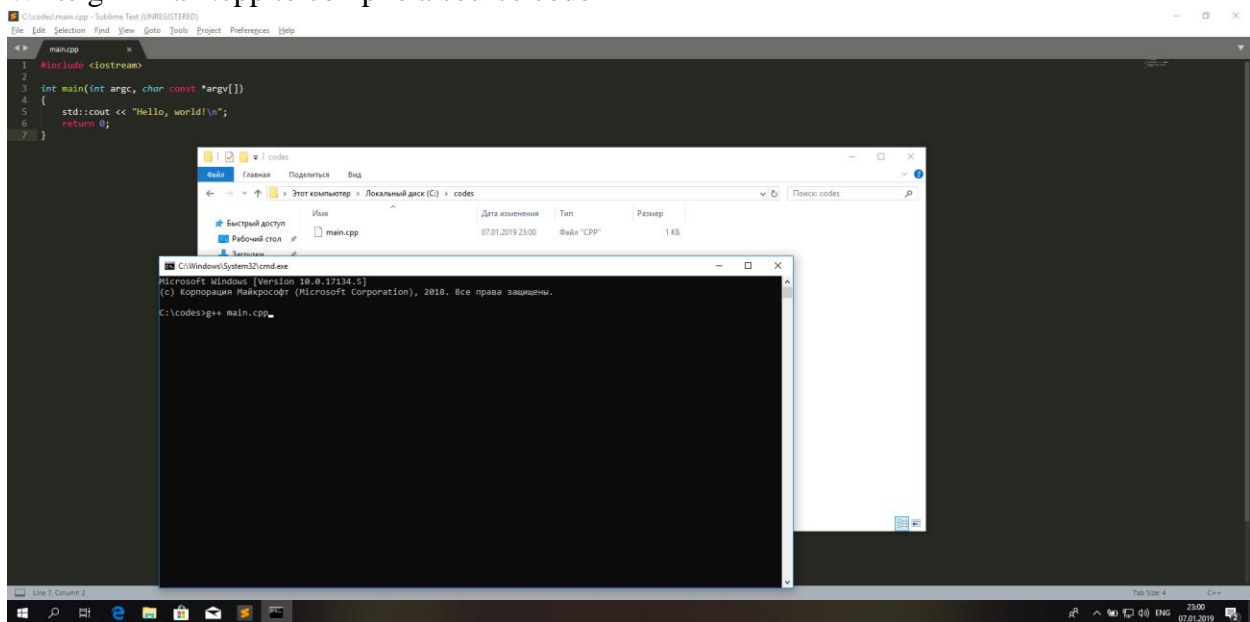




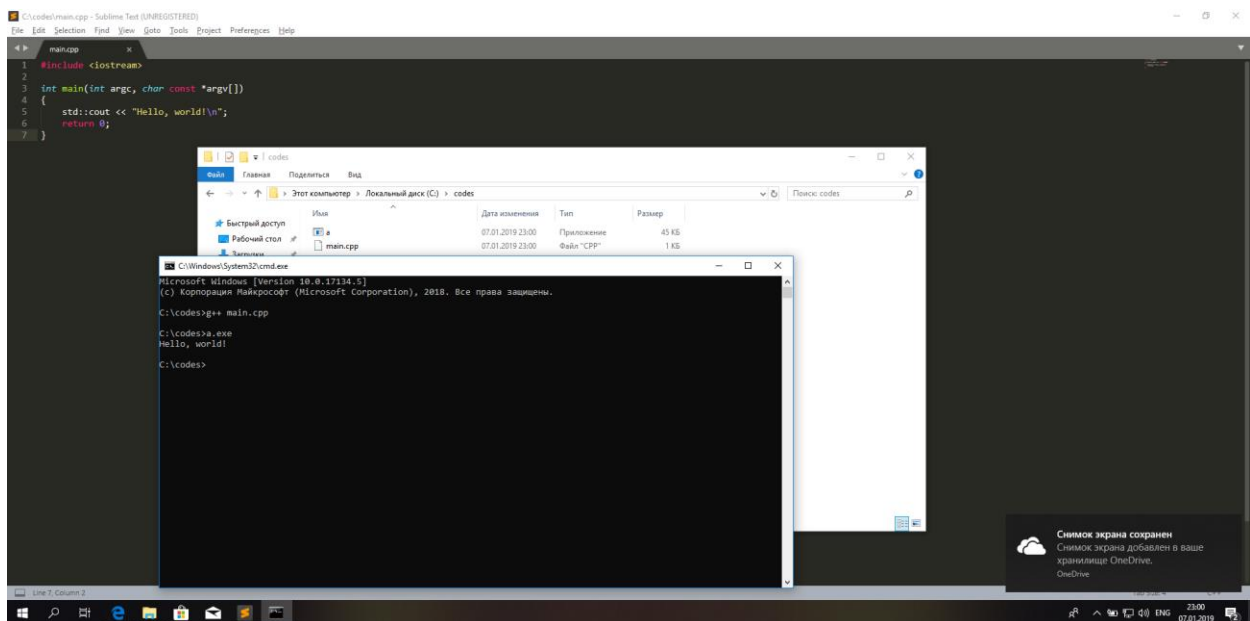
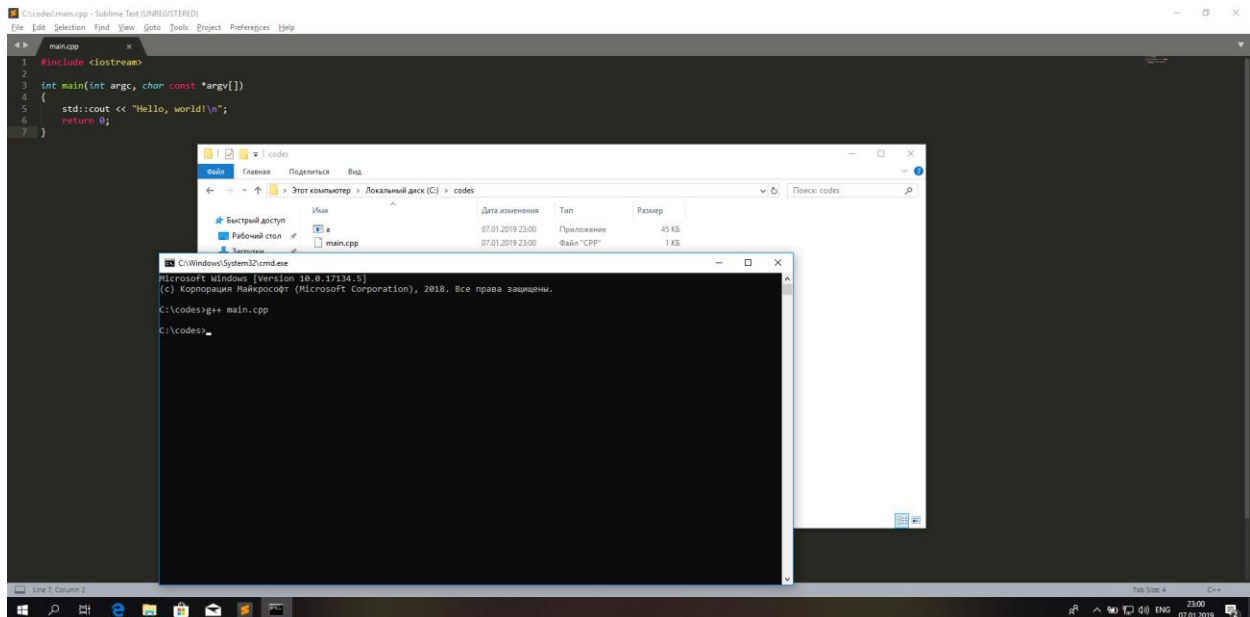
Now we can compile it through terminal (just write cmd in address bar to open it)



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



Now we have a.exe file that we can run

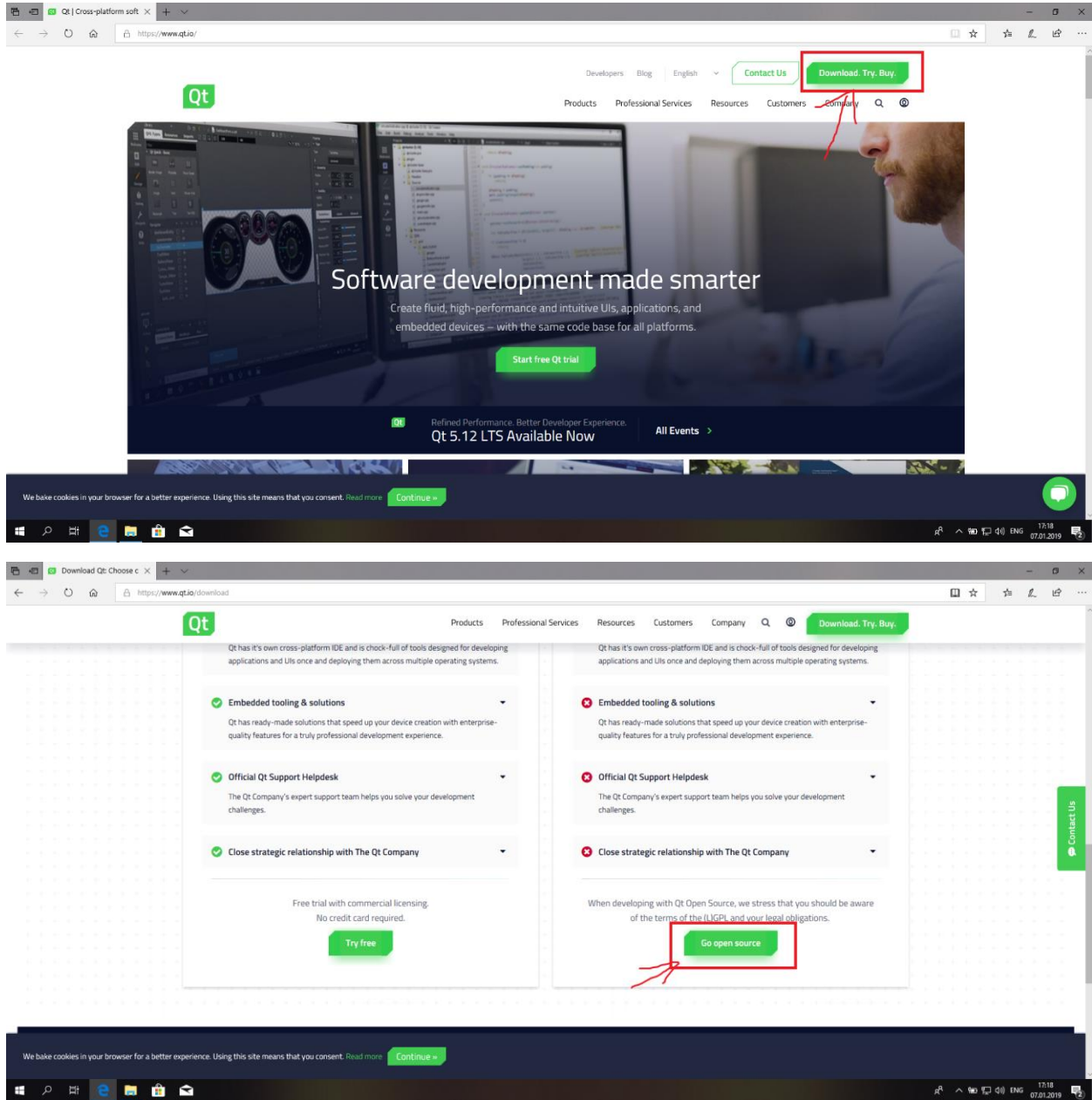


# IDE installation

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

https://www.qt.io/download-qt-installer?u=CtaTracking=9f6a2170-a938-42d1-a9e2-a9061d0cde9f7C0cb00e4f-96b5-4778-ab02-bfb627339e5

Qt

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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](#)



Contact Us

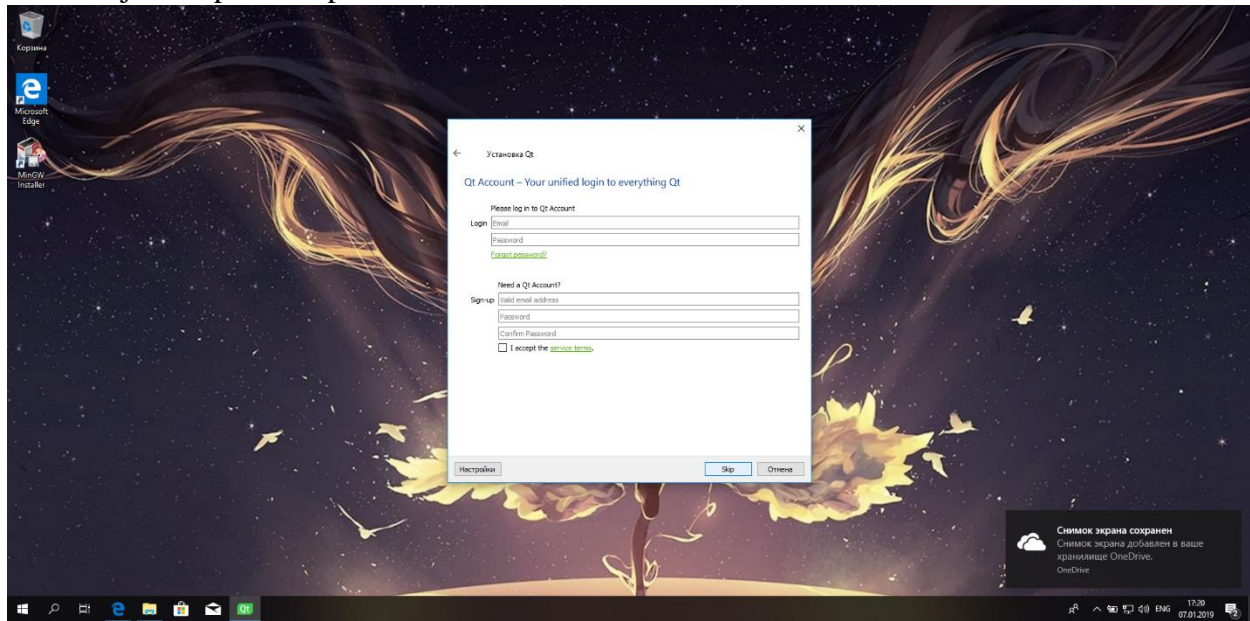
We bake cookies in your browser for a better experience. Using this site means that you consent. [Read more](#) [Continue »](#)

17:18 07/01/2019

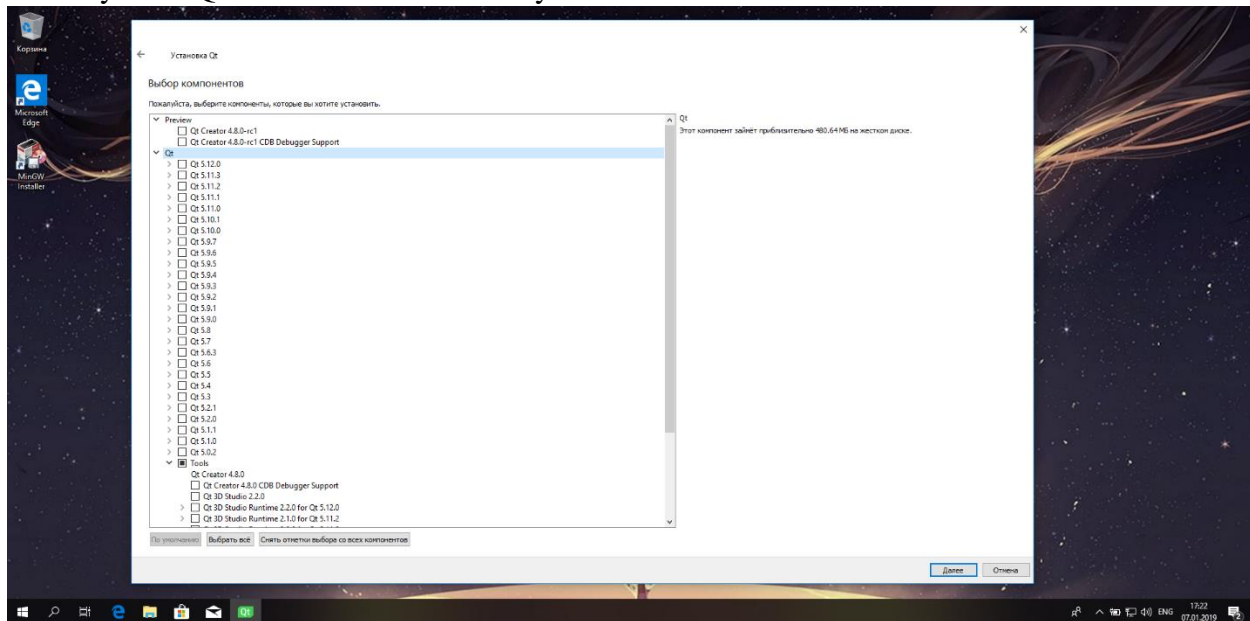


# Qt installation

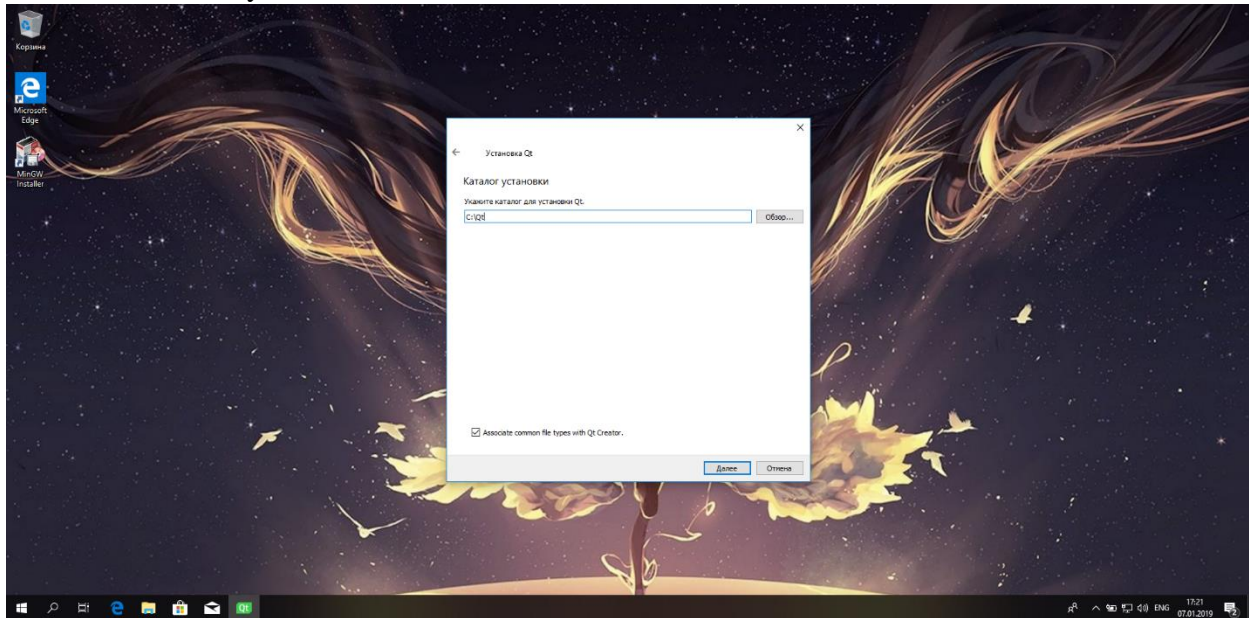
You can just skip this step



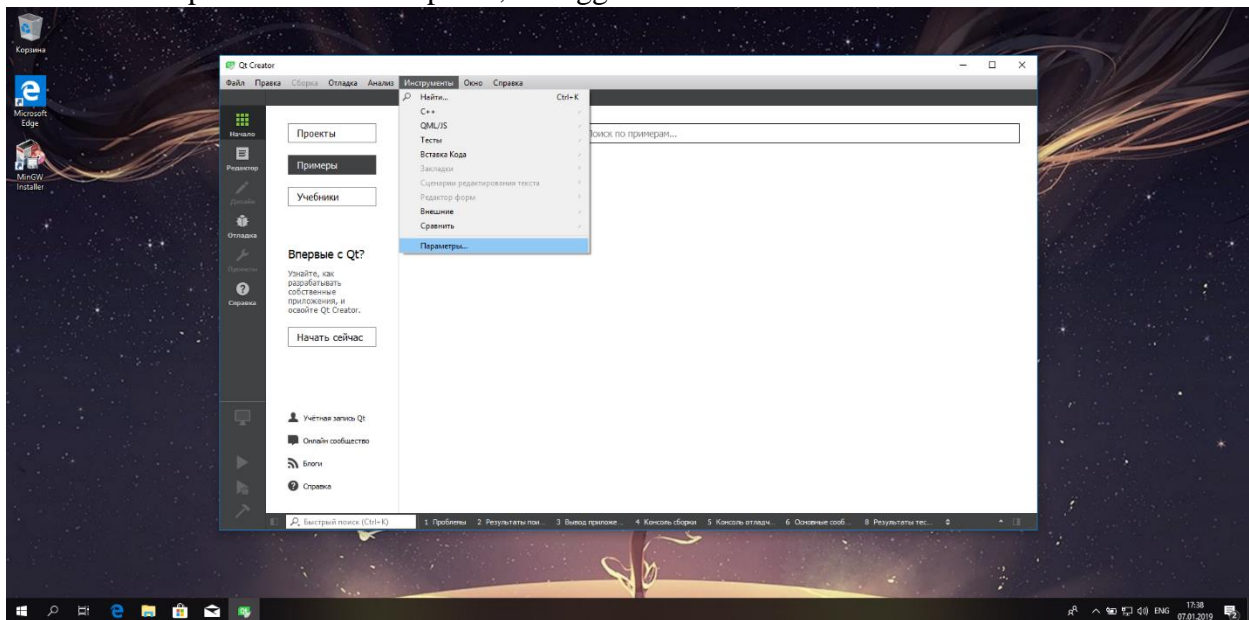
We only need Qt Creator that is chosen by default

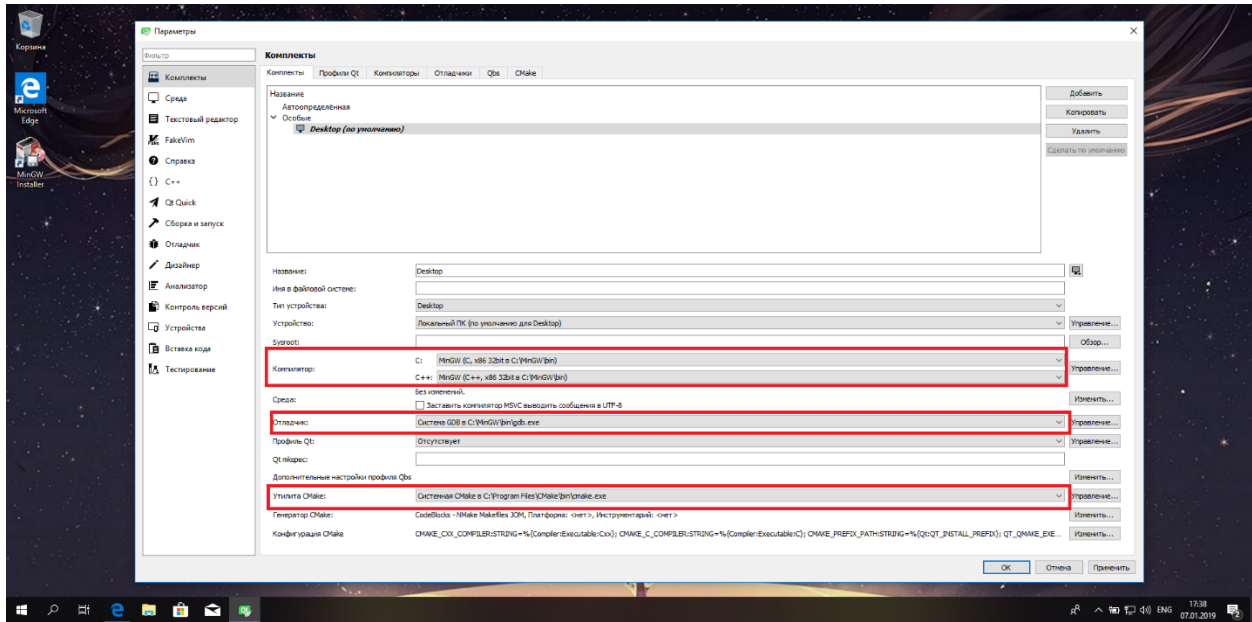


Install it wherever you want



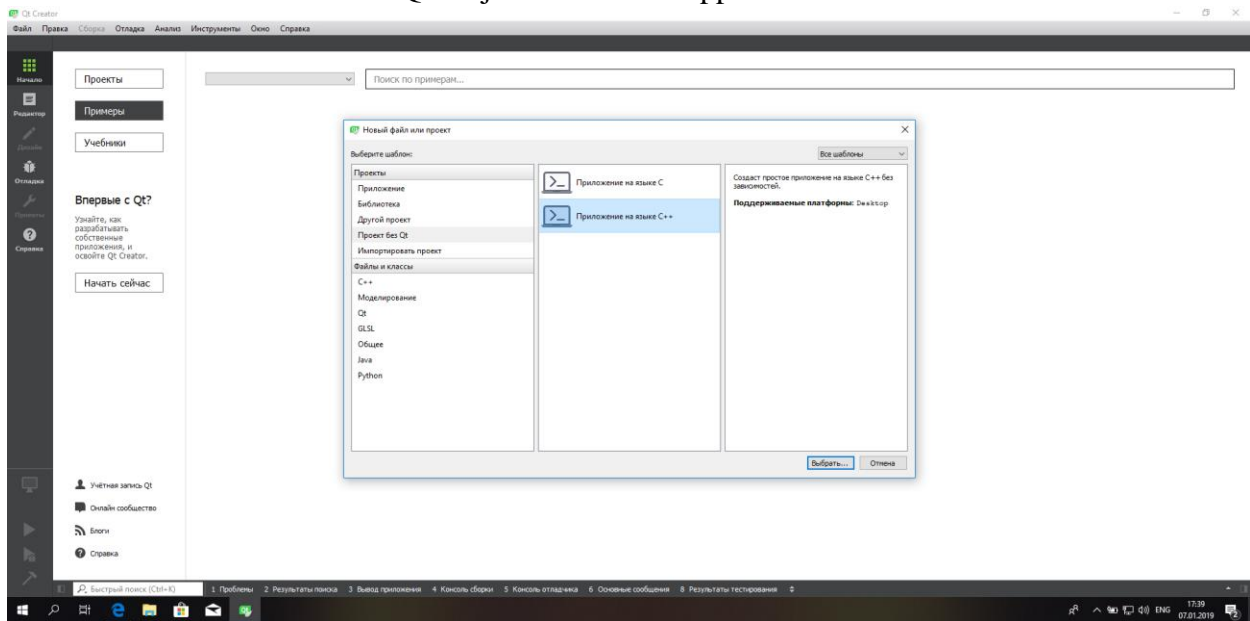
Click Tools/Options and set compilers, debugger and CMake



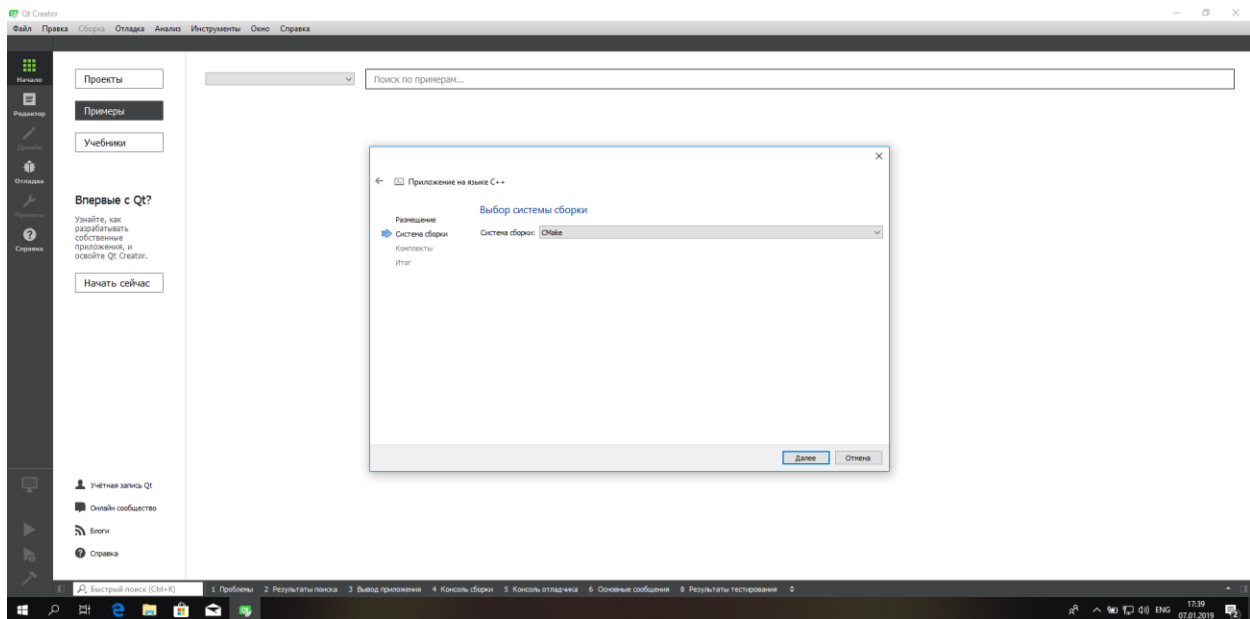


# First project

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

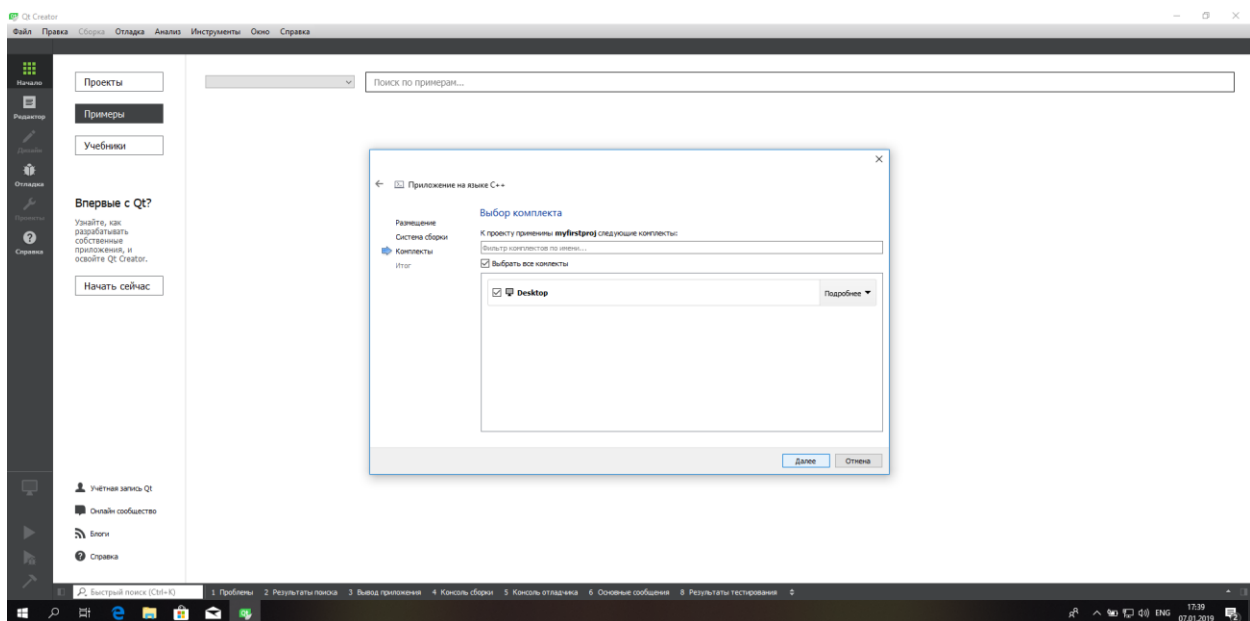
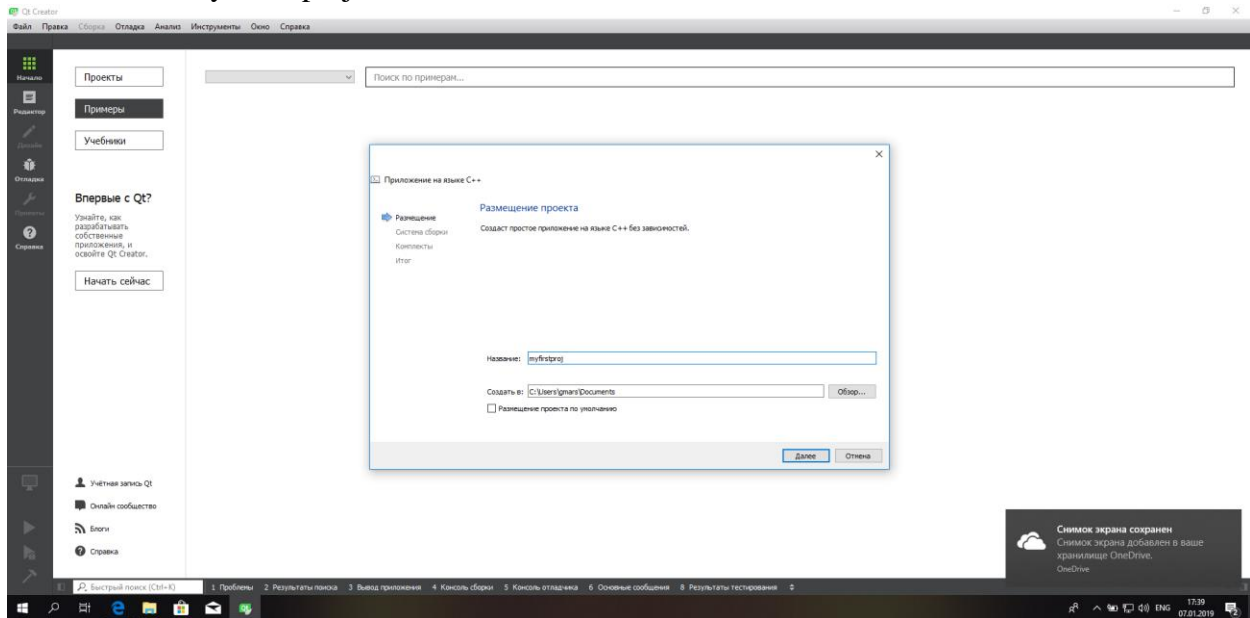


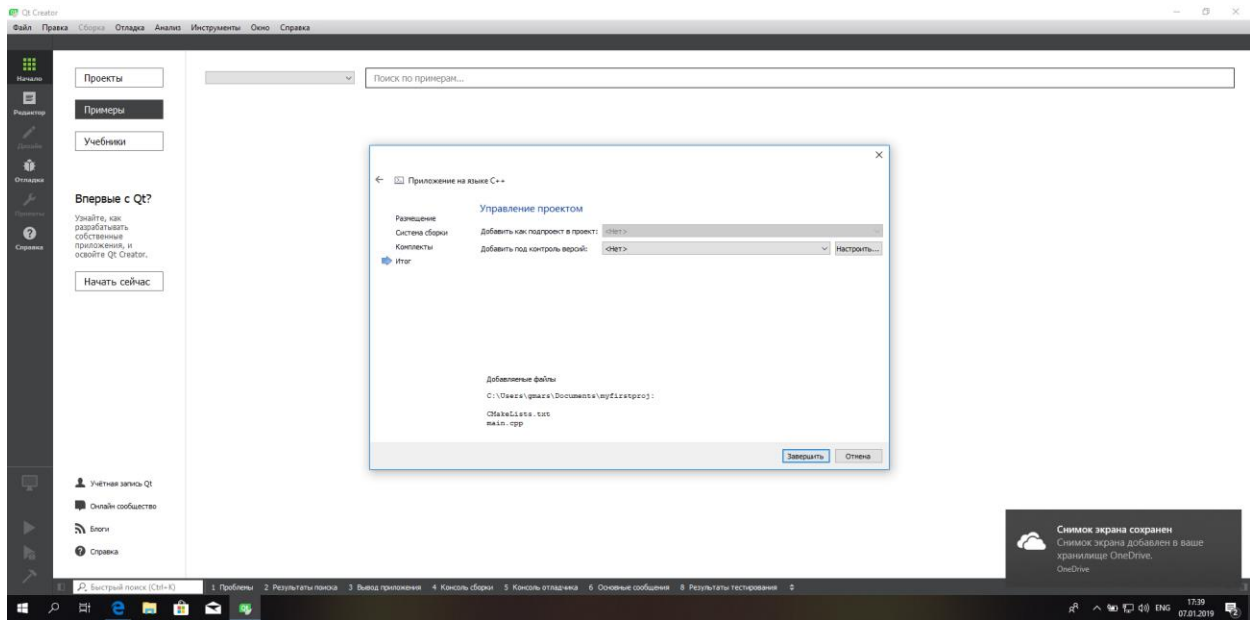
# Choose CMake



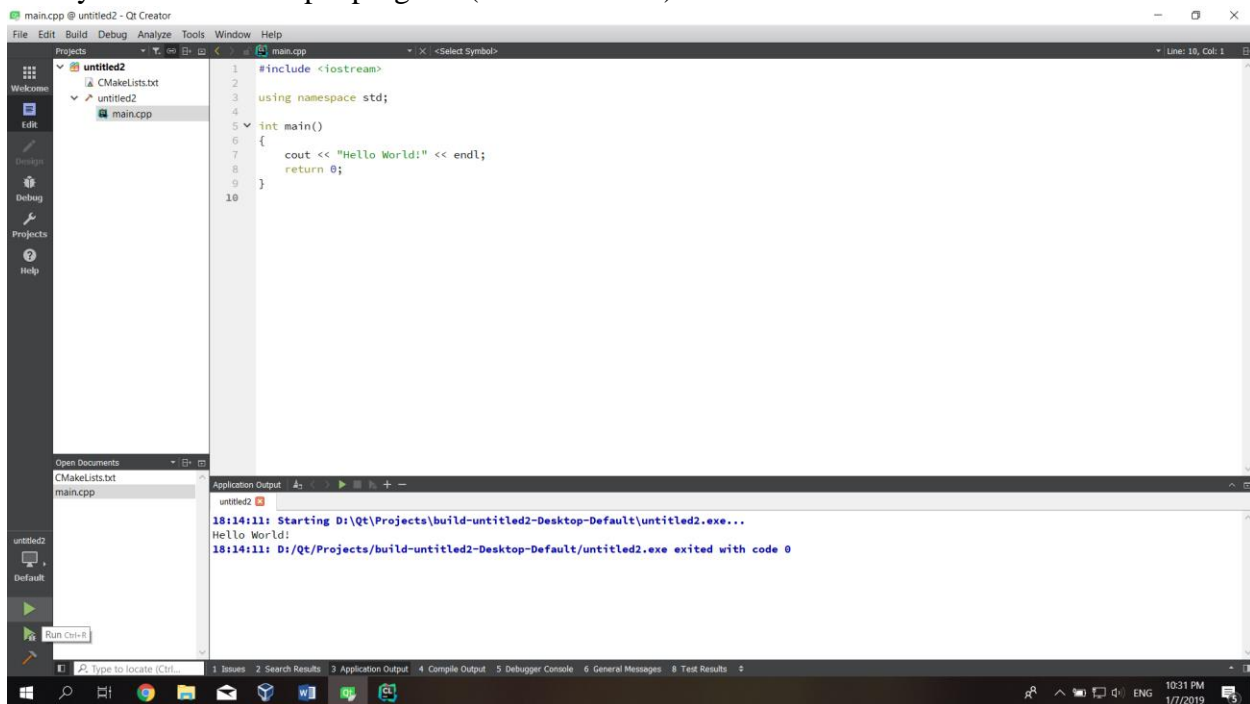


# Choose directory for a project



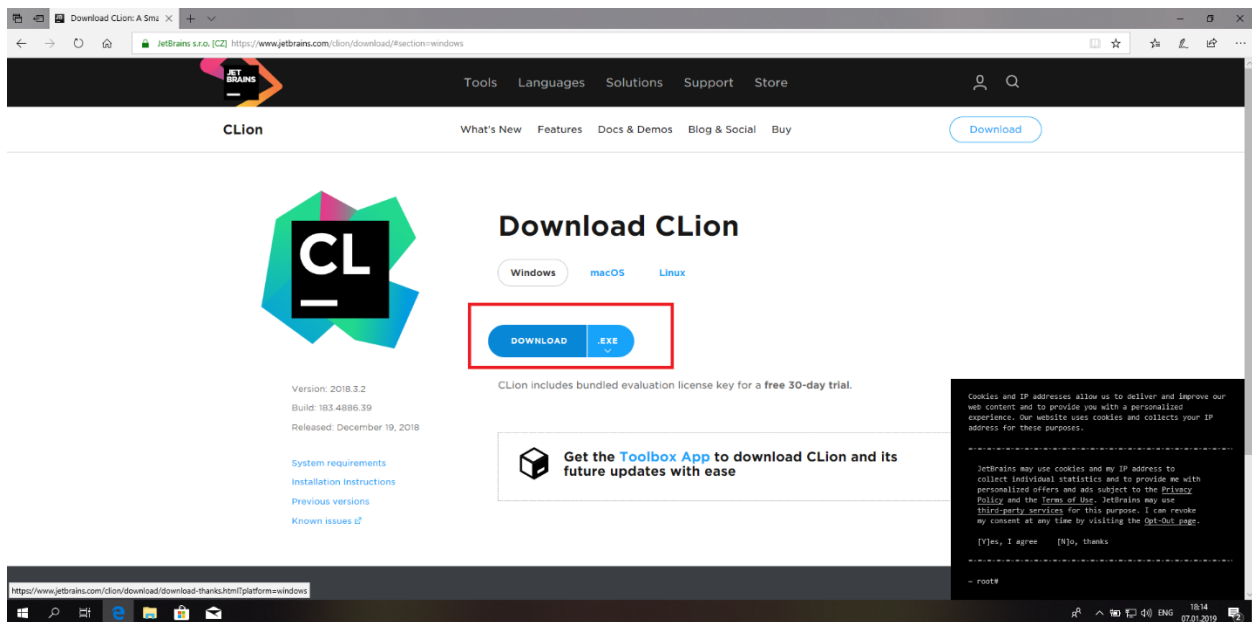
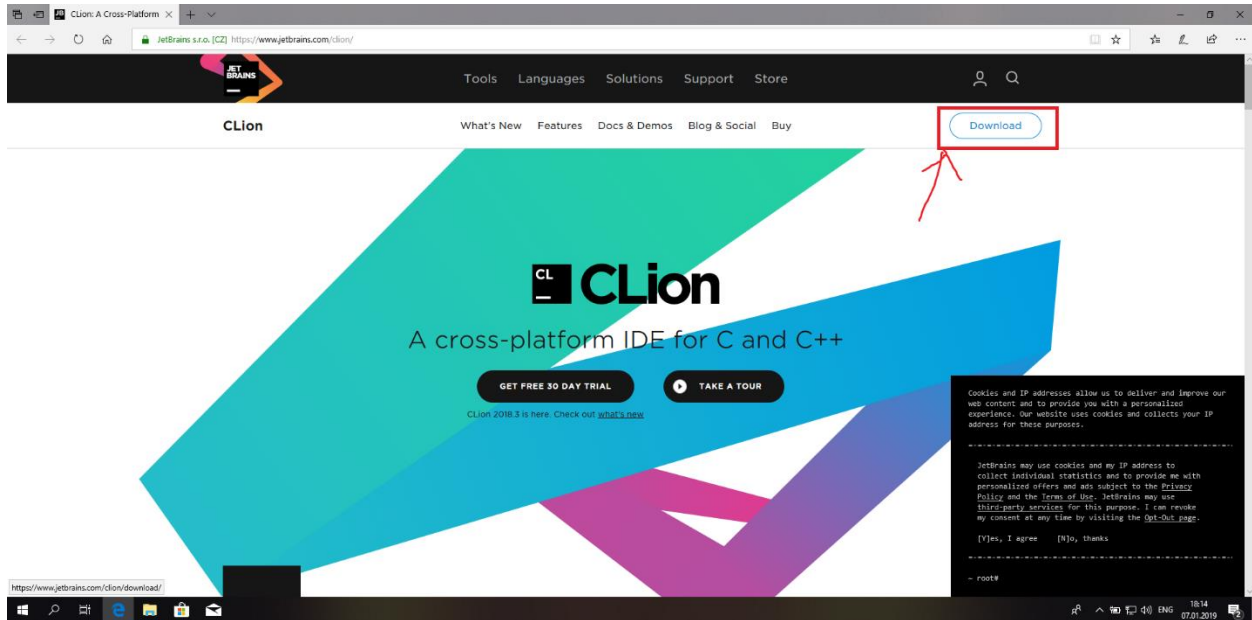


Now you can run a simple program (Run or Ctrl+R)



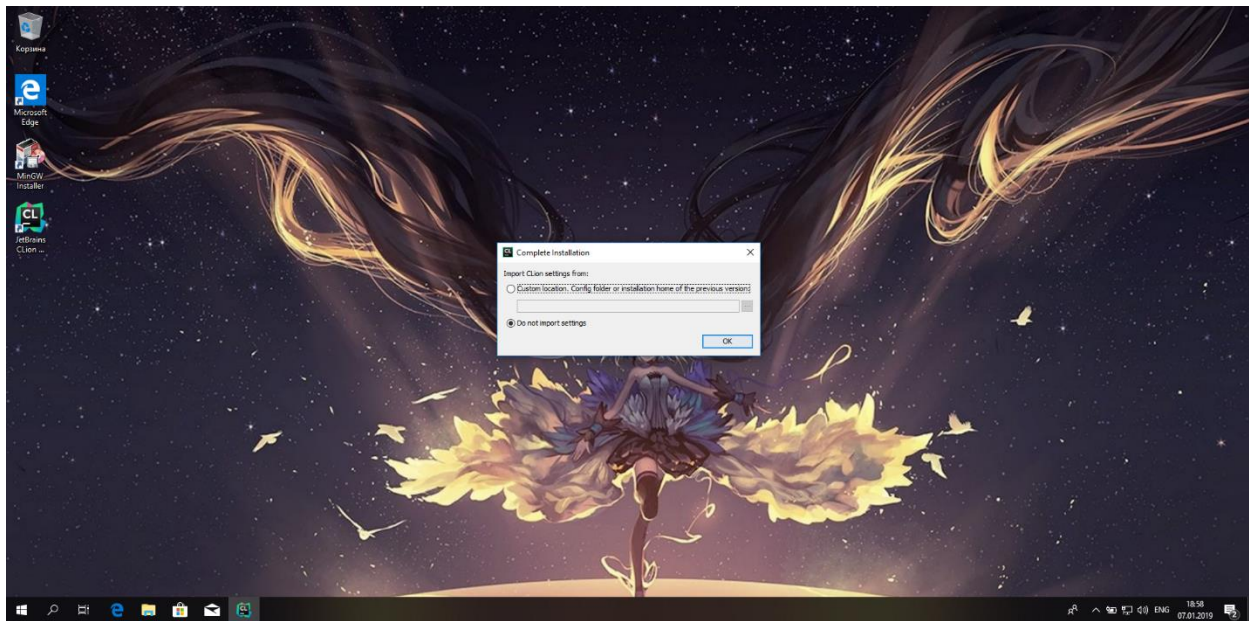
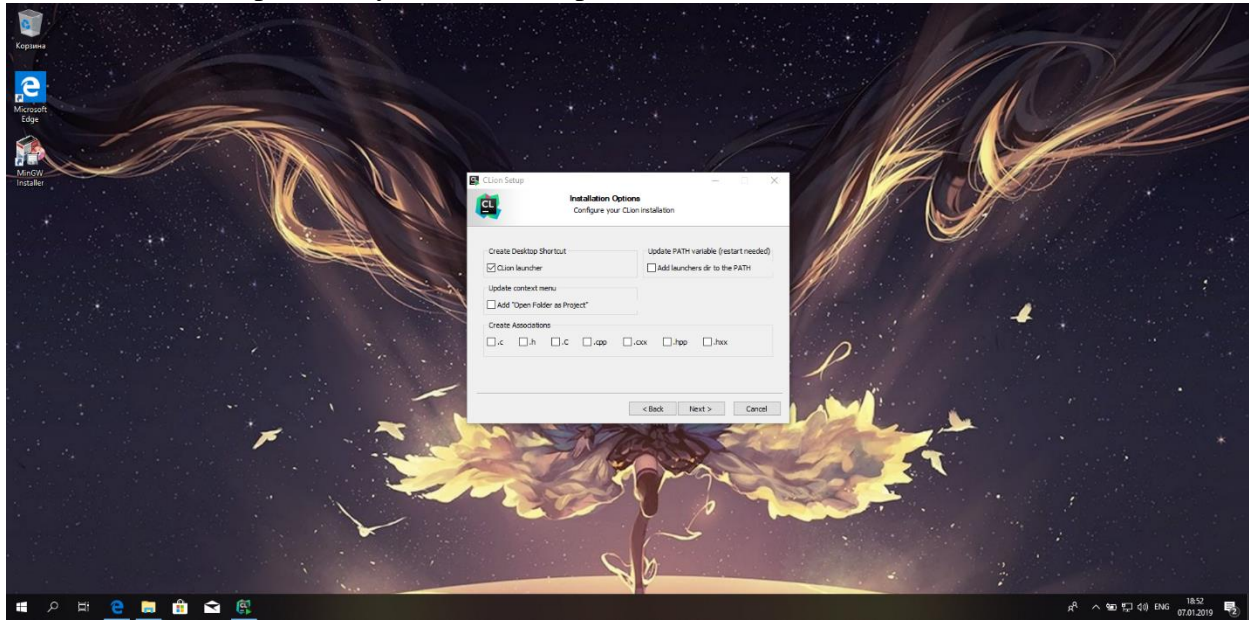
# CLion

## CLion download



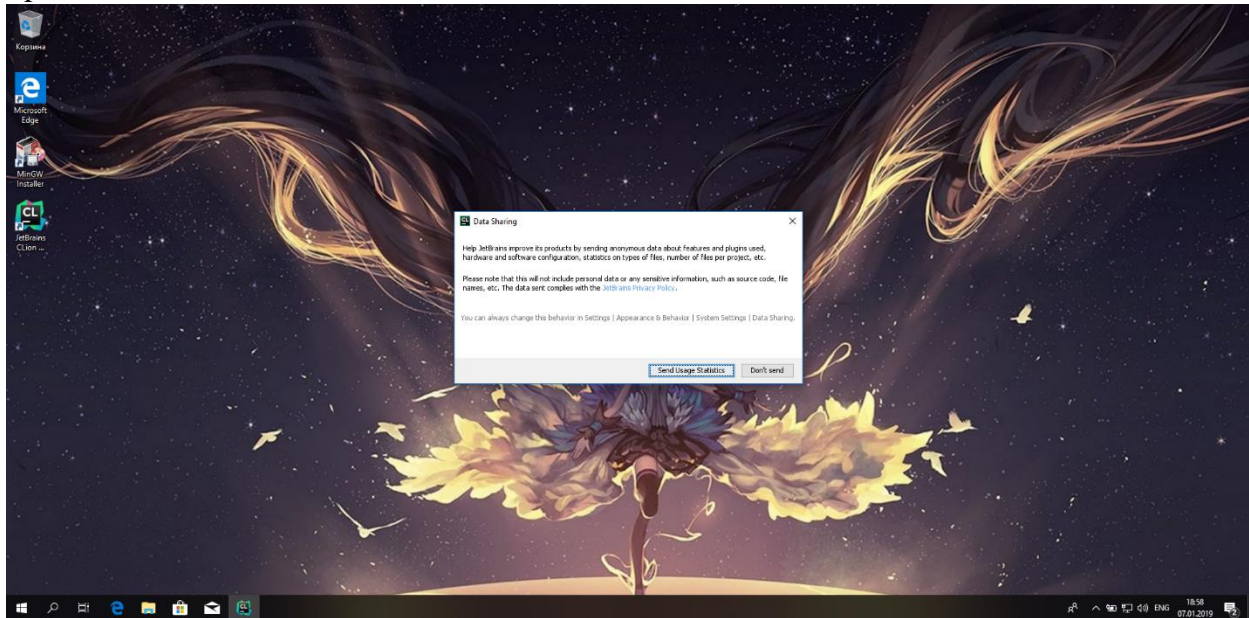
## CLion installation

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

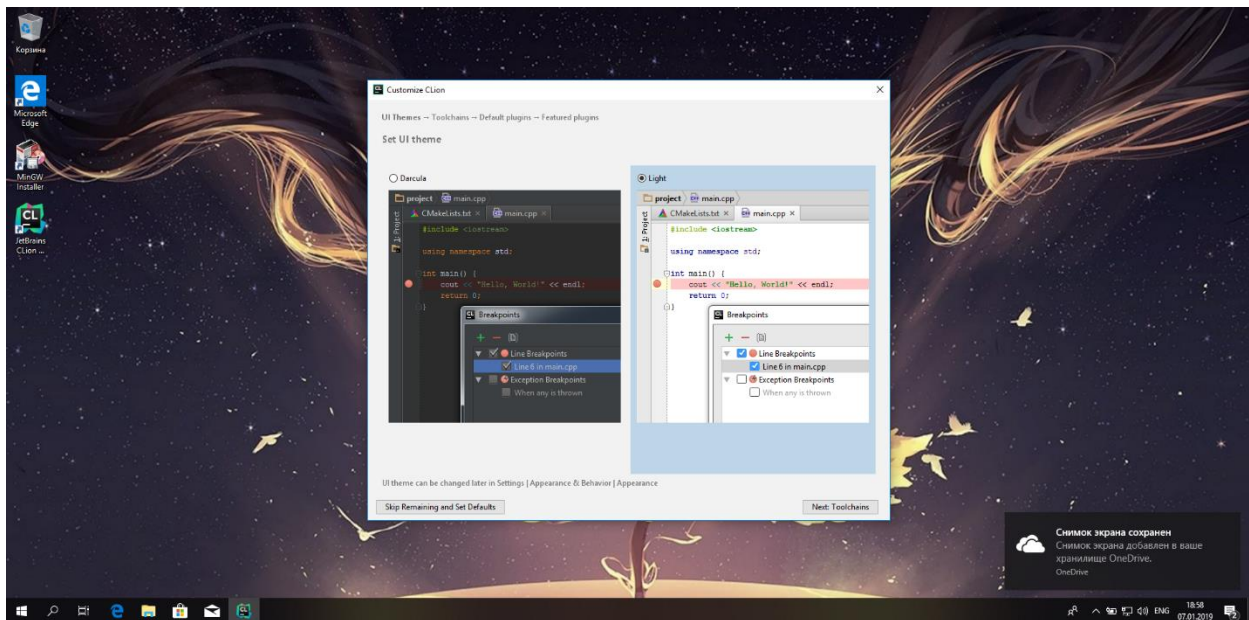




I prefer not to send

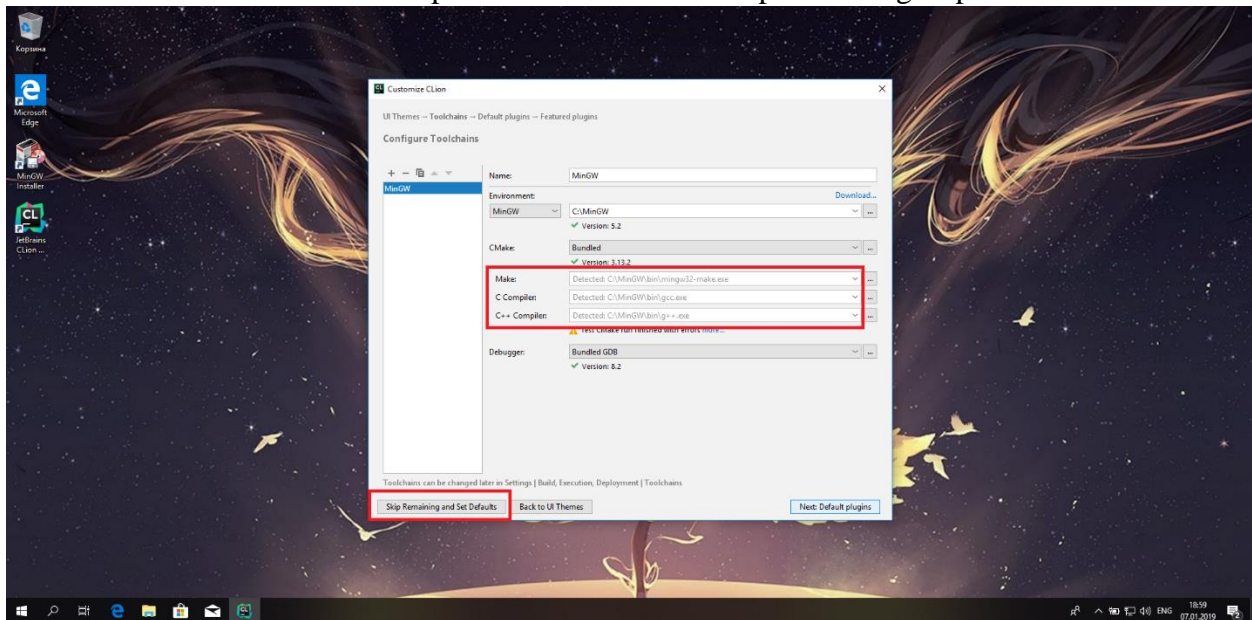


Choose theme

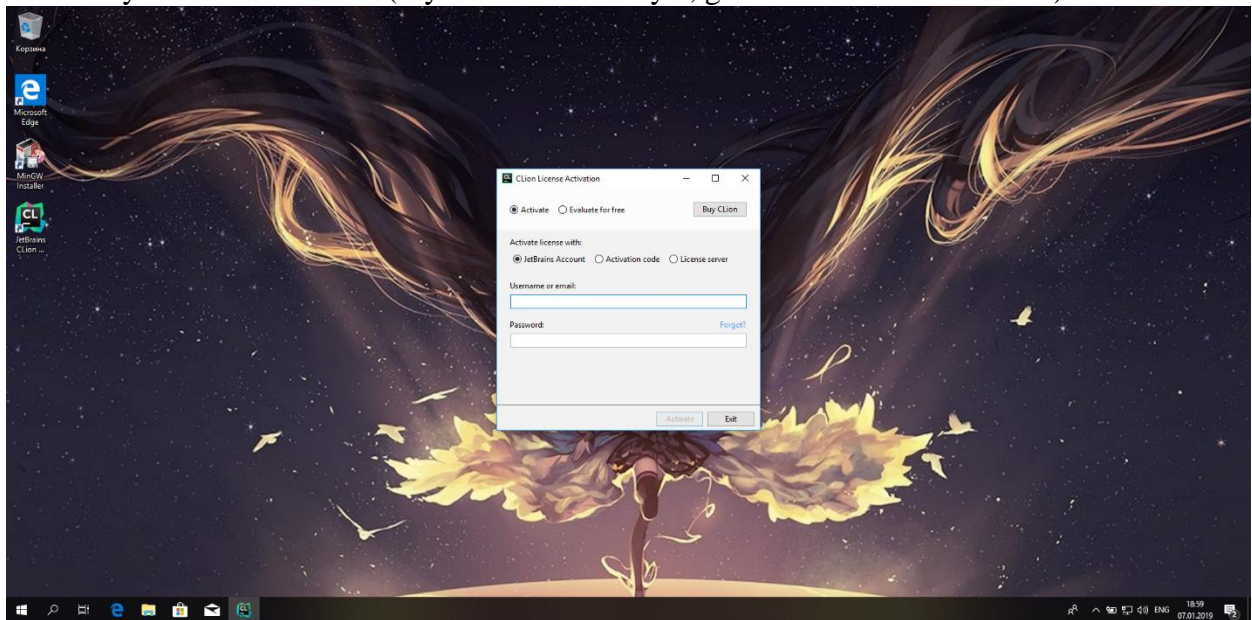




Make sure that CLion found compilers and CMake and skip remaining steps

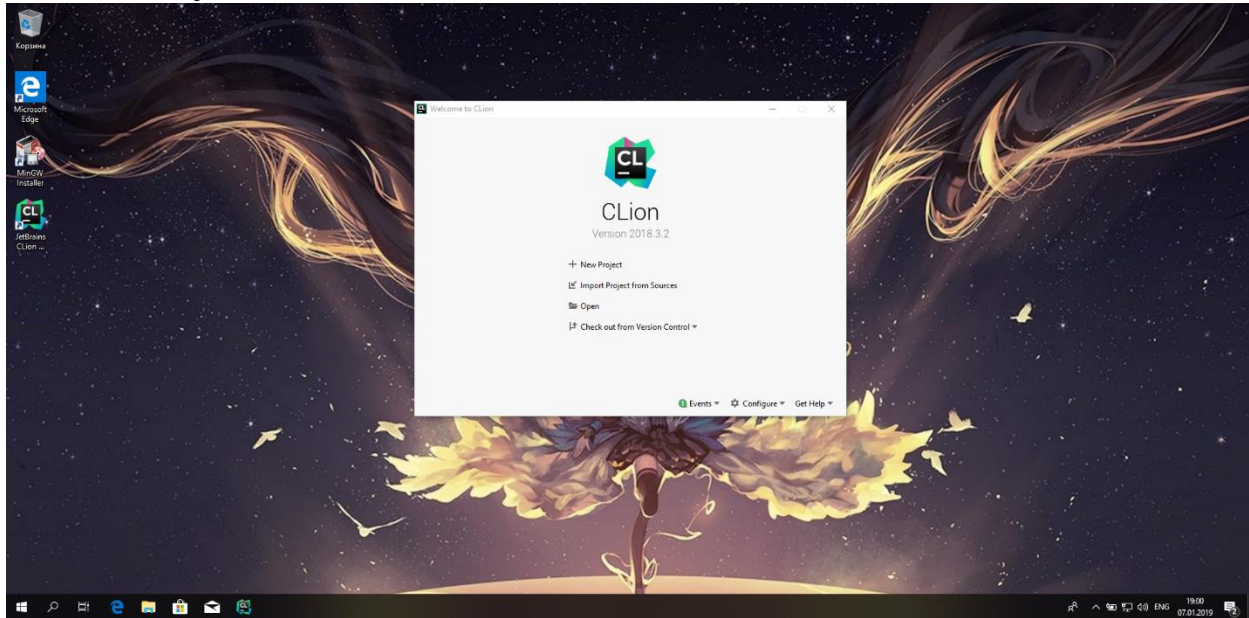


Activate your student license (if you don't have it yet, get it on JetBrains' website)

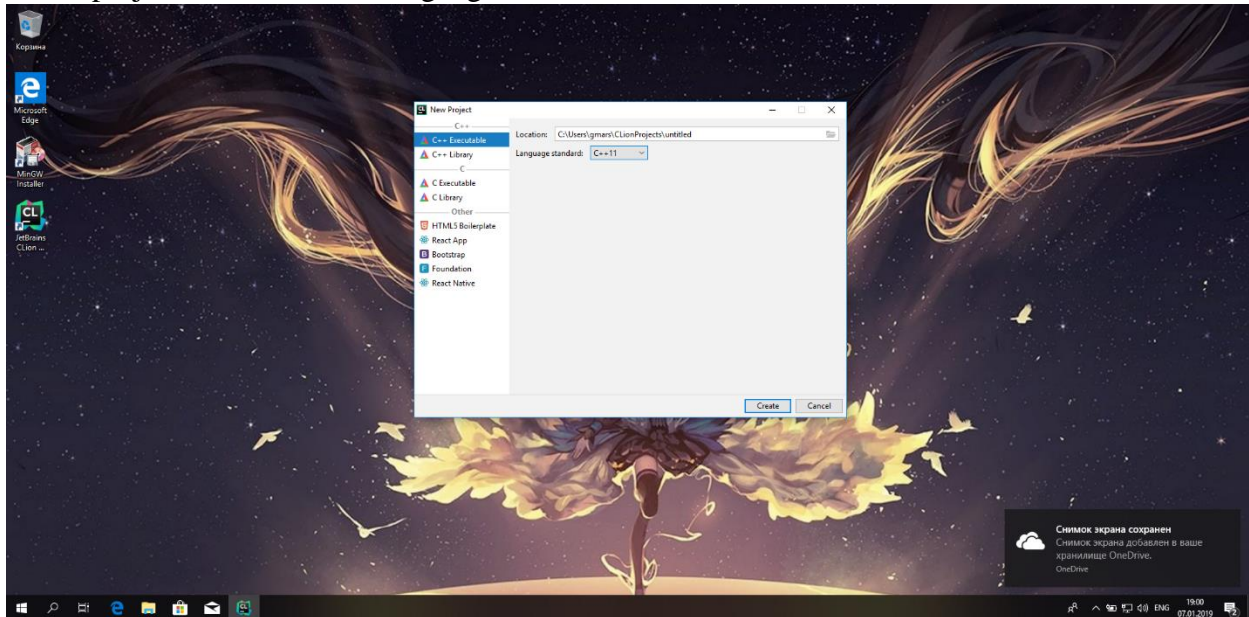


## First project

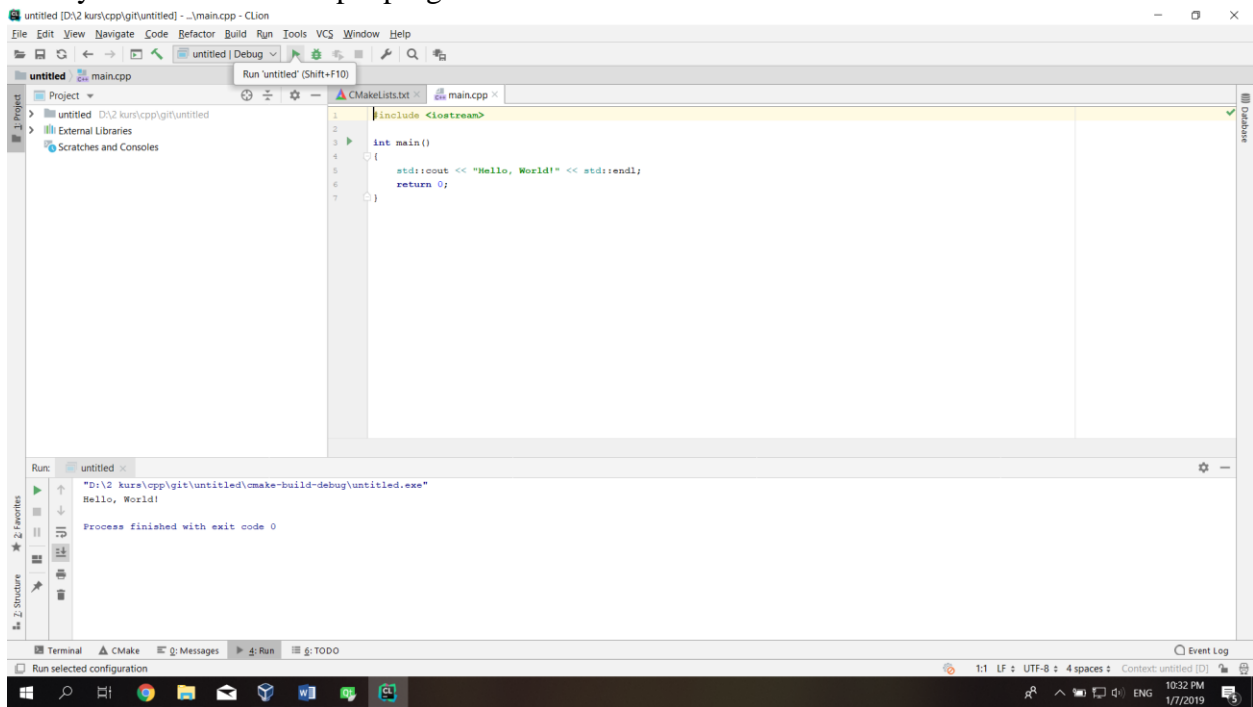
Click New Project



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



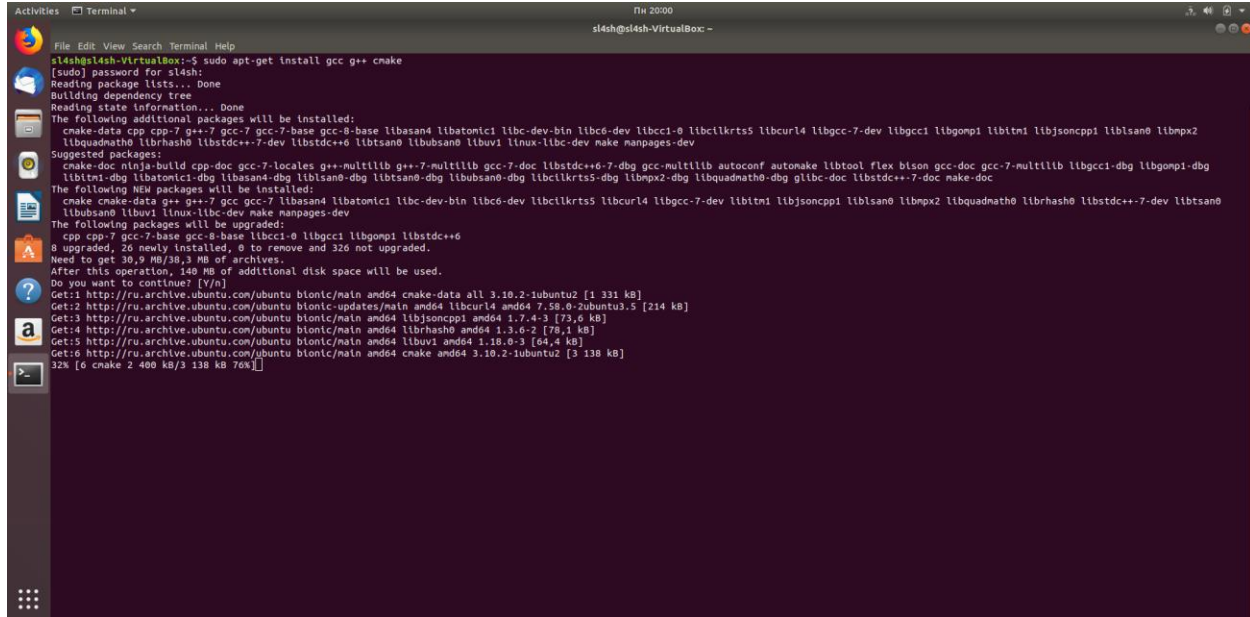
## Now you can run this simple program



# Development tools for Linux (Ubuntu) installation

## C\C++ compiler and CMake installation

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

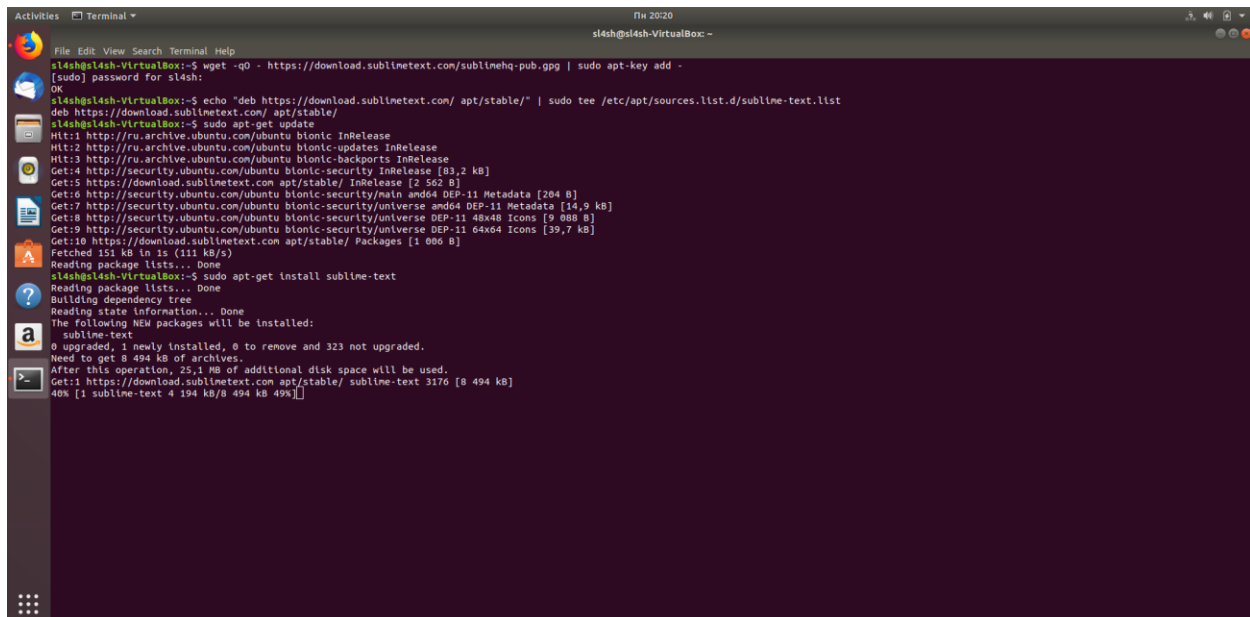
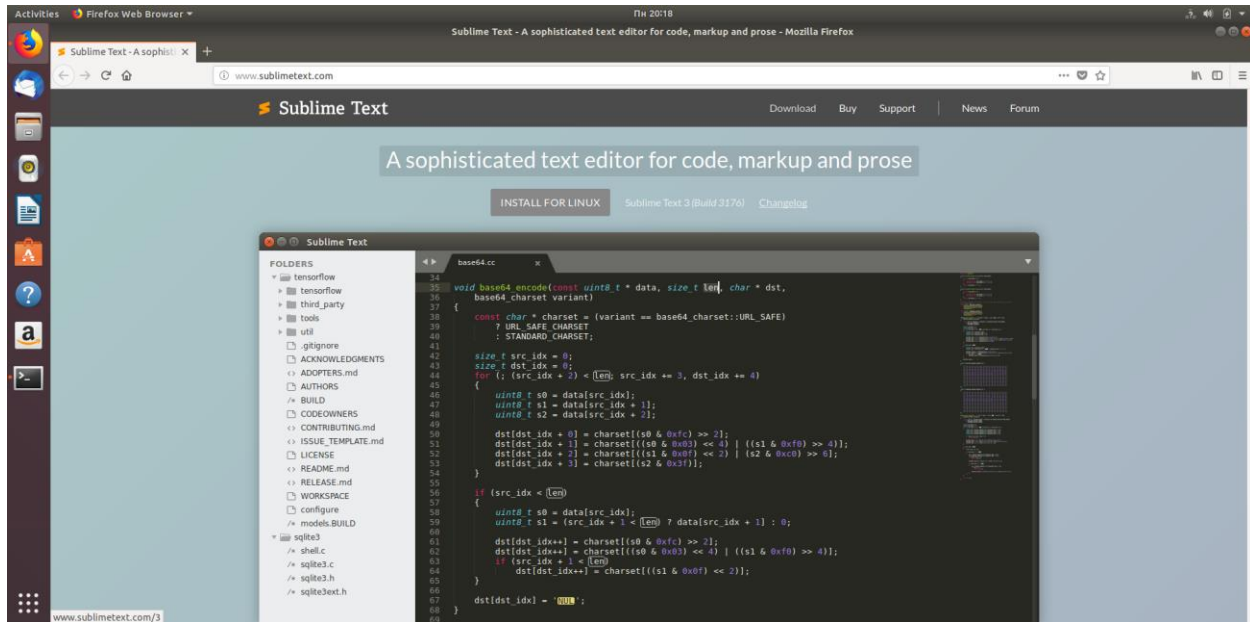


```
sl4sh@sl4sh-VirtualBox:~$ sudo apt-get install gcc g++ cmake
[sudo] password for sl4sh:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  cmake-data cpp cpp-7 g++-7 gcc-7 gcc-7-base gcc-8-base libasan4 libatomic1 libc-dev-bin libc6-dev libc++-0 libcilkrts5 libcurl4 libgcc-7-dev libgcc1 libgomp1 libitm1 libjsoncpp1 liblsan0 libmpx2
  libquadmath0 librtssh0 libstdc++-7-dev libstdc++6 libtsan0 libubsan0 libuv1 linux-libc-dev make nanpages-dev
Suggested packages:
  cmake-doc ninja-build cpp-doc gcc-7-locales g++-multilib g++-7-multilib gcc-7-doc libstdc++6-7-dbg gcc-multilib autoconf automake libtool flex bison gcc-doc gcc-7-multilib libgcc1-dbg libgomp1-dbg
  libitm1-dbg libatomic1-dbg libasan4-dbg liblsan0-dbg libubsan0-dbg libcilkrts5-dbg libmpx2-dbg libquadmath0-dbg glibc-doc libstdc++-7-doc make-doc
The following NEW packages will be installed:
  cmake cmake-data g++ g++-7 gcc gcc-7 libasan4 libatomic1 libc-dev-bin libc6-dev libcilkrts5 libcurl4 libgcc-7-dev libitm1 libjsoncpp1 liblsan0 libmpx2 libquadmath0 librtssh0 libstdc++-7-dev libtsan0
  libubsan0 libuv1 linux-libc-dev make nanpages-dev
The following packages will be upgraded:
  cpp cpp-7 gcc-7-base gcc-8-base libcc1-0 libgcc1 libgomp1 libstdc++6
8 upgraded, 26 newly installed, 0 to remove and 326 not upgraded.
Need to get 30.9 MB/38.3 MB of archives.
After this operation, 140 MB of additional disk space will be used.
Do you want to continue? [Y/n]
Get:1 http://ru.archive.ubuntu.com/ubuntu bionic/main amd64 cmake-data all 3.10.2-1ubuntu2 [1 331 kB]
Get:2 http://ru.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libcurl4 amd64 7.58.0-2ubuntu3.5 [214 kB]
Get:3 http://ru.archive.ubuntu.com/ubuntu bionic/main amd64 libjsoncpp1 amd64 1.7.4-3 [73,6 kB]
Get:4 http://ru.archive.ubuntu.com/ubuntu bionic/main amd64 librtssh0 amd64 1.3.0-2 [78,1 kB]
Get:5 http://ru.archive.ubuntu.com/ubuntu bionic/main amd64 libuv1 amd64 1.18.0-3 [64,4 kB]
Get:6 http://ru.archive.ubuntu.com/ubuntu bionic/main amd64 cmake amd64 3.10.2-1ubuntu2 [3 138 kB]
32k [6 cmake 2 486 kB/3 138 kB 70%]
```



# Developing C\C++ programs without IDE

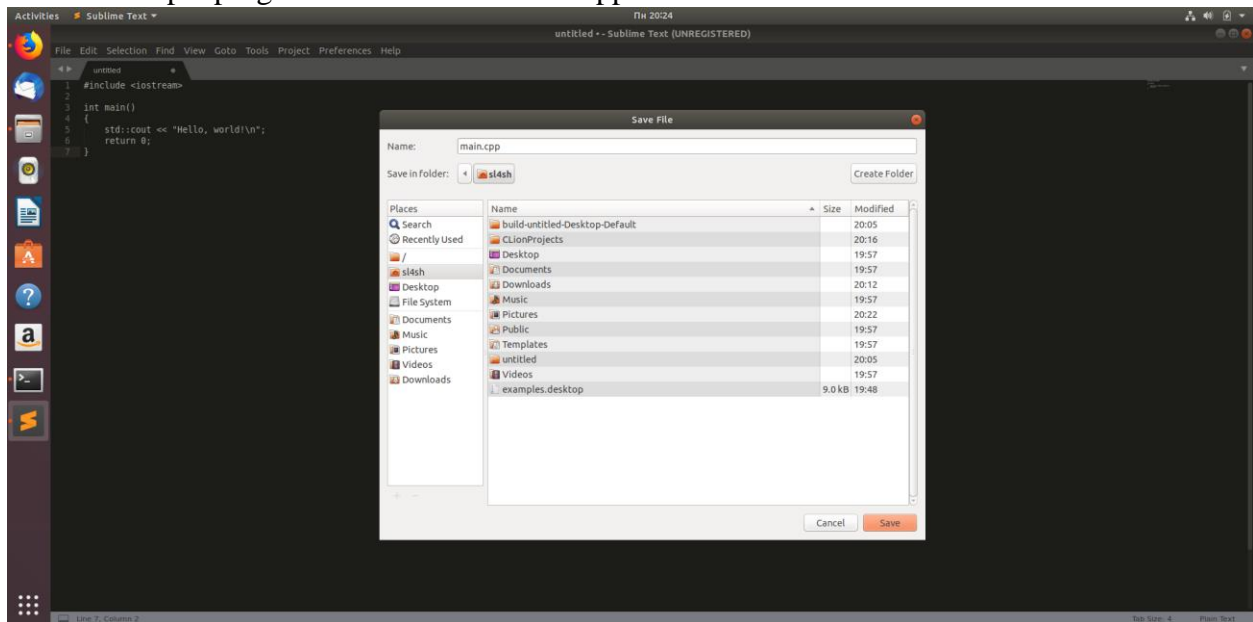
Now we can already create programs with text editors (for example I'll use Sublime Editor)



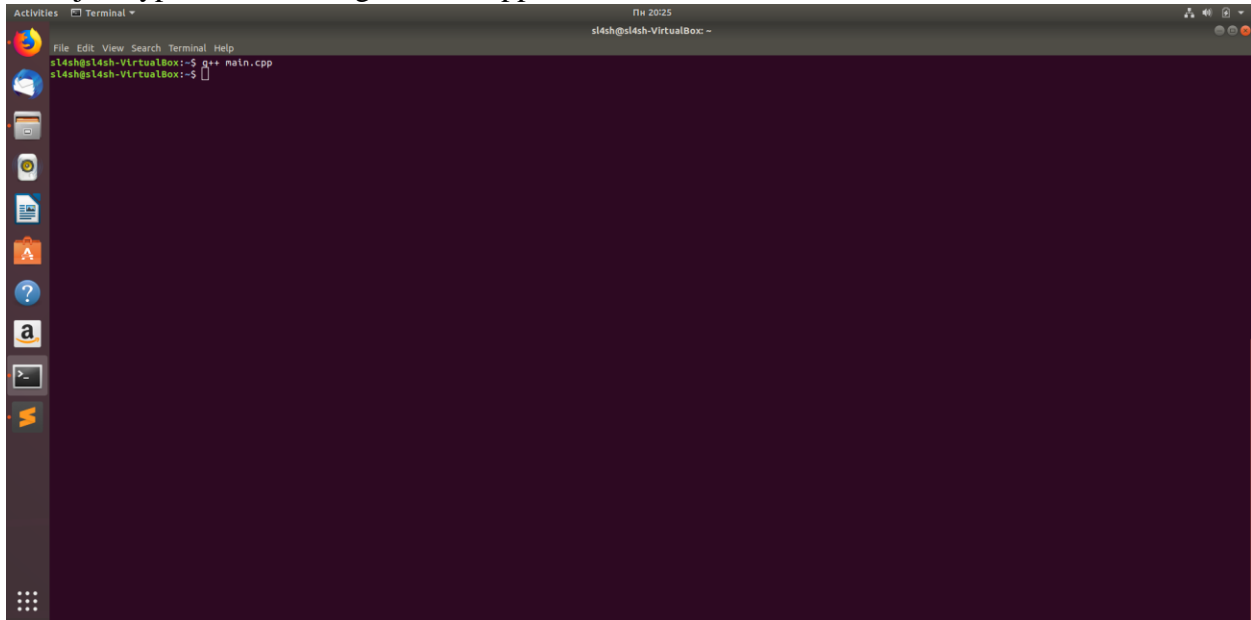




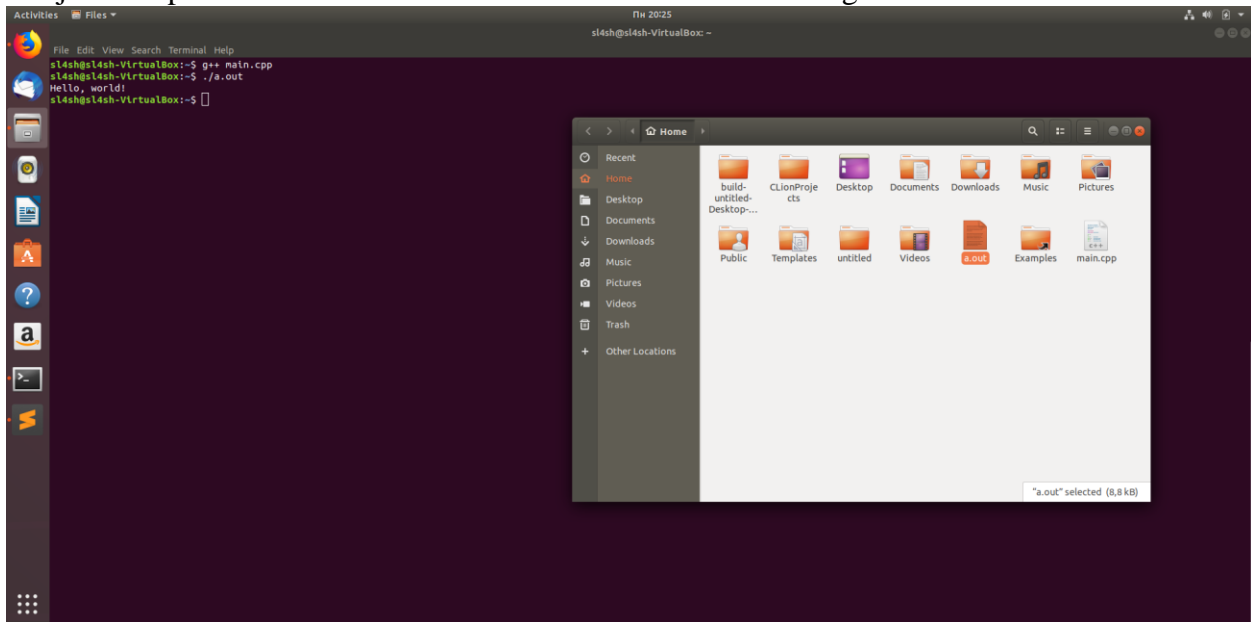
Create a simple program and save it as main.cpp



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



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



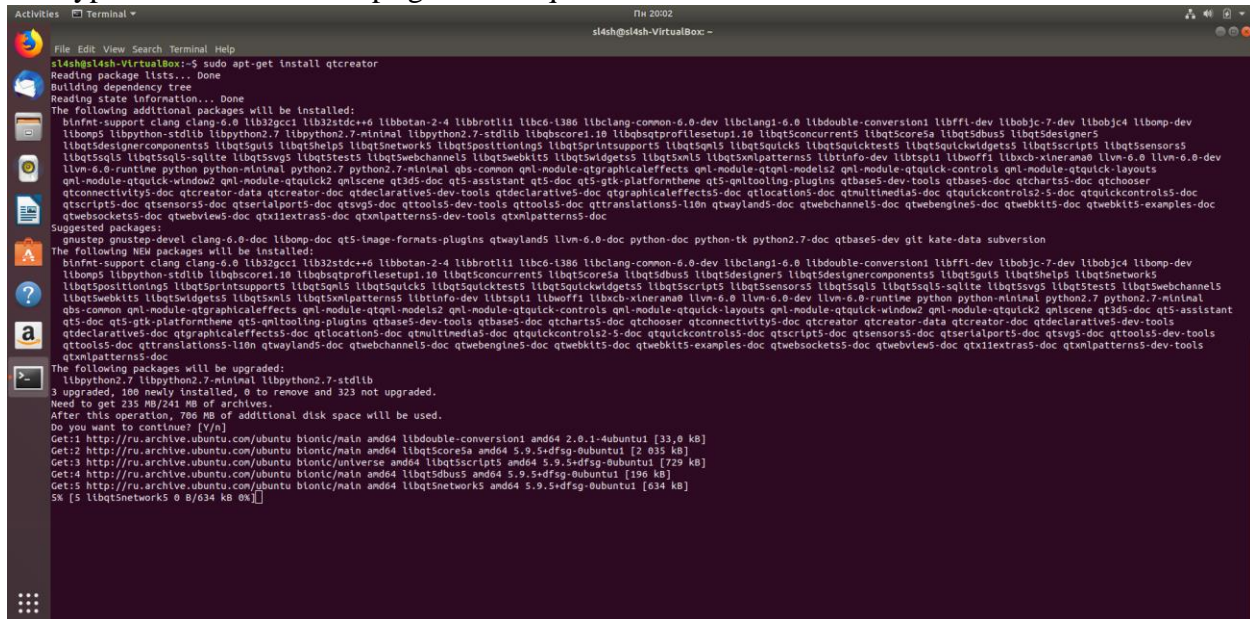
## IDE installation

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

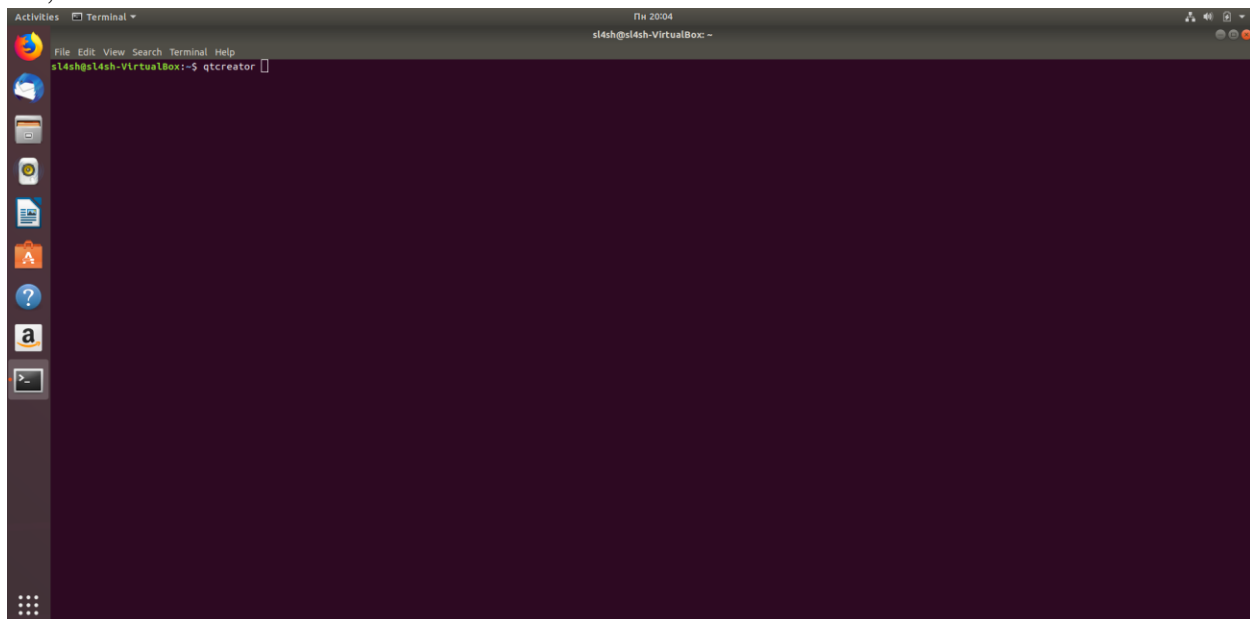
Just type in terminal "sudo apt-get install qtcreator"



```
Activities Terminal
File Edit View Search Terminal Help
sl4sh@sl4sh-VirtualBox:~$ sudo apt-get install qtcreator
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
binfmt-support clang clang-6.0 lib32gcc1 lib32stdc++6 libbetan-2-4 libbrotli1 libc6-1386 libclang-common-6.0-dev libclang1-6.0 libdouble-conversion1 libffi-dev libibj4 libomp-dev
libomp5 libpython-stdlib libpython2.7 libpython2.7-minimal libpython2.7-stdlib libqbscore1.10 libqbsqtprofilesetup1.10 libqt5concurrent5 libqt5core5a libqt5dbus5 libqt5designer5
libqt5designercomponents5 libqt5gui5 libqt5help5 libqt5network5 libqt5positioning5 libqt5printsupport5 libqt5qml5 libqt5quick5 libqt5quicktests5 libqt5quickwidgets5 libqt5scripts5 libqt5sensors5
libqt5sql5 libqt5sql5-qtldr libqt5svg5 libqt5tests5 libqt5webchannels5 libqt5webkit5 libqt5widgets5 libqt5xml5 libqt5xmlpatterns5 libtinfo-dev libtspi1 libwoff1 libxcb-xinerama0 llvm-6.0-0-dev
llvm-6.0-runtime python python-minimal python2.7 python2.7-minimal qbs-common qml-module-qtgraphicaleffects qml-module-qtqml-models2 qml-module-qtquick-controls qml-module-qtquick-layouts
qml-module-qtquick-window2 qml-module-qtquick2 qmlscene qt3ds-doc qt5-assistant qt5-doc qt5-gtk-platformtheme qt5-qmltooling-plugins qtbase5-dev-tools qtbase5-doc qtcharts5-doc qtchooser
qtconnectivity5-doc qtcreator-data qtcreator-doc qtdeclarative5-dev-tools qtdeclarative5-doc qtgraphicaleffects5-doc qtlocation5-doc qtmultimedia5-doc qtquickcontrols2-5-doc qtquickcontrols5-doc
qtscript5-doc qtsensors5-doc qtserialports5-doc qtsvg5-doc qttools5-dev-tools qttools5-doc qtrtranslations5-l10n qtwayland5-doc qtwebchannels5-doc qtwebengines5-doc qtwebkit5-doc qtwebkit5-examples-doc
qtwebsockets5-doc qtwebviews5-doc qtx11extras5-doc qtxmlpatterns5-dev-tools qtxmlpatterns5-doc
Suggested packages:
gnustep-devel clang-6.0-doc libomp-doc qt5-image-formats-plugins qtwayland5 llvm-6.0-doc python-doc python-tk python2.7-doc qtbase5-dev git kate-data subversion
The following NEW packages will be installed:
binfmt-support clang clang-6.0 lib32gcc1 lib32stdc++6 libbetan-2-4 libbrotli1 libc6-1386 libclang-common-6.0-dev libclang1-6.0 libdouble-conversion1 libffi-dev libibj4 libomp-dev
libomp5 libpython-stdlib libpython2.7 libpython2.7-minimal libpython2.7-stdlib libqbscore1.10 libqbsqtprofilesetup1.10 libqt5concurrent5 libqt5core5a libqt5dbus5 libqt5designer5
libqt5designercomponents5 libqt5gui5 libqt5help5 libqt5network5 libqt5positioning5 libqt5printsupport5 libqt5qml5 libqt5quick5 libqt5quicktests5 libqt5quickwidgets5 libqt5scripts5 libqt5sensors5
libqt5sql5 libqt5sql5-qtldr libqt5svg5 libqt5tests5 libqt5webchannels5 libqt5webkit5 libqt5widgets5 libqt5xml5 libqt5xmlpatterns5 libtinfo-dev libtspi1 libwoff1 libxcb-xinerama0 llvm-6.0-0-dev
llvm-6.0-runtime python python-minimal python2.7 python2.7-minimal qbs-common qml-module-qtgraphicaleffects qml-module-qtqml-models2 qml-module-qtquick-controls qml-module-qtquick-layouts
qml-module-qtquick-window2 qml-module-qtquick2 qmlscene qt3ds-doc qt5-assistant qt5-doc qt5-gtk-platformtheme qt5-qmltooling-plugins qtbase5-dev-tools qtbase5-doc qtcharts5-doc qtchooser
qtconnectivity5-doc qtcreator-data qtcreator-doc qtdeclarative5-dev-tools qtdeclarative5-doc qtgraphicaleffects5-doc qtlocation5-doc qtmultimedia5-doc qtquickcontrols2-5-doc qtquickcontrols5-doc
qtscript5-doc qtsensors5-doc qtserialports5-doc qtsvg5-doc qttools5-dev-tools qttools5-doc qtrtranslations5-l10n qtwayland5-doc qtwebchannels5-doc qtwebengines5-doc qtwebkit5-doc qtwebkit5-examples-doc
qtwebsockets5-doc qtwebviews5-doc qtx11extras5-doc qtxmlpatterns5-dev-tools qtxmlpatterns5-doc
The following packages will be upgraded:
libpython2.7 libpython2.7-minimal libpython2.7-stdlib
3 upgraded, 100 newly installed, 0 to remove and 323 not upgraded.
Need to get 235 MB/241 MB of archives.
After this operation, 706 MB of additional disk space will be used.
Do you want to continue? [Y/n]
Get:1 http://ru.archive.ubuntu.com/ubuntu bionic/main amd64 libdouble-conversion1 amd64 2.0.1-4ubuntu1 [33,0 kB]
Get:2 http://ru.archive.ubuntu.com/ubuntu bionic/main amd64 libqt5core5a amd64 5.9.5+dfsg-0ubuntu1 [2 035 kB]
Get:3 http://ru.archive.ubuntu.com/ubuntu bionic/universe amd64 libqt5scripts5 amd64 5.9.5+dfsg-0ubuntu1 [729 kB]
Get:4 http://ru.archive.ubuntu.com/ubuntu bionic/main amd64 libqt5dbus5 amd64 5.9.5+dfsg-0ubuntu1 [136 kB]
Get:5 http://ru.archive.ubuntu.com/ubuntu bionic/main amd64 libqt5network5 amd64 5.9.5+dfsg-0ubuntu1 [634 kB]
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Get:7 http://ru.archive.ubuntu.com/ubuntu bionic/main amd64 libqt5quick5 amd64 5.9.5+dfsg-0ubuntu1 [136 kB]
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```

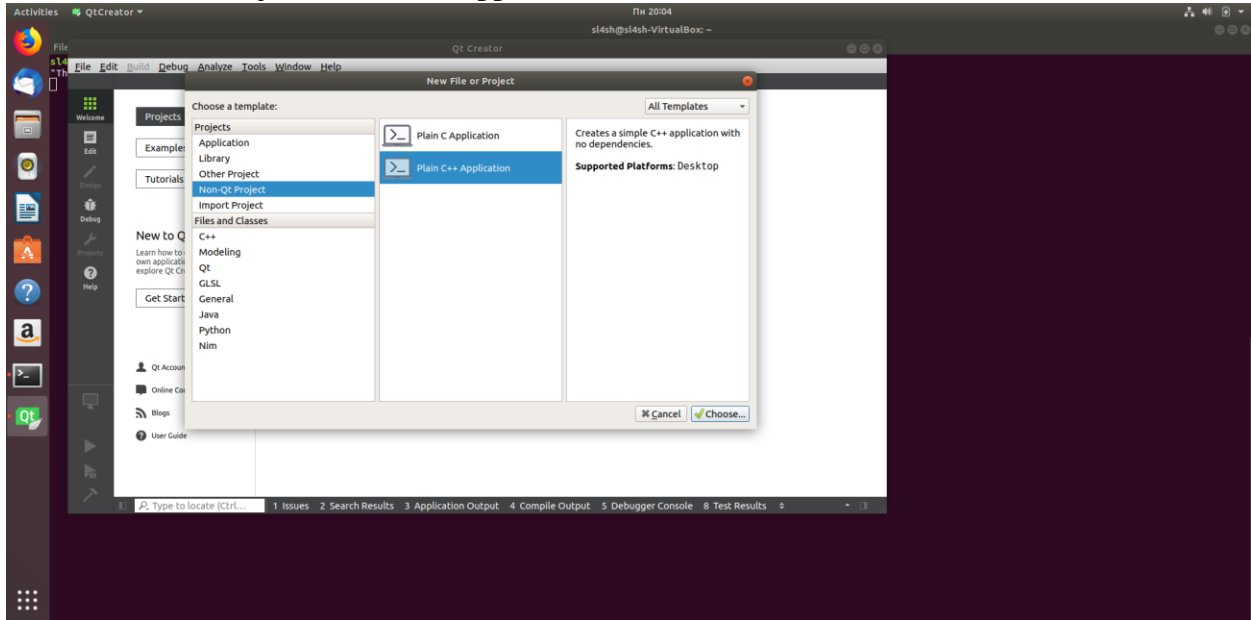
Ok, now we can run it



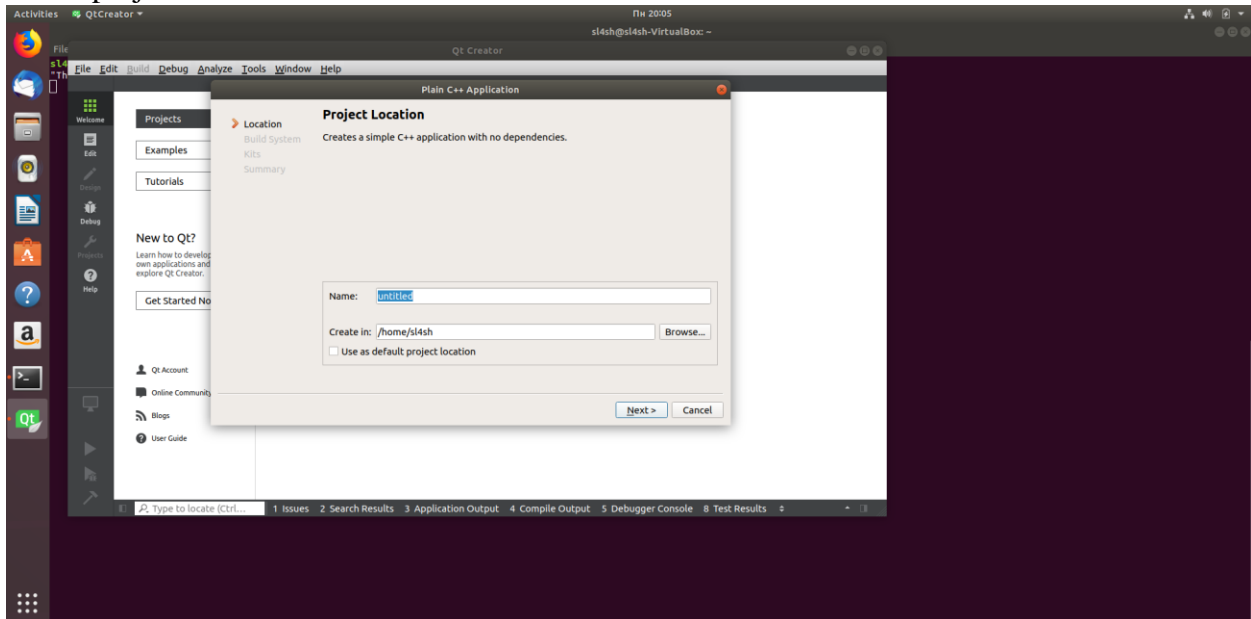
```
Activities Terminal
File Edit View Search Terminal Help
sl4sh@sl4sh-VirtualBox:~$ qtcreator
```

# First project

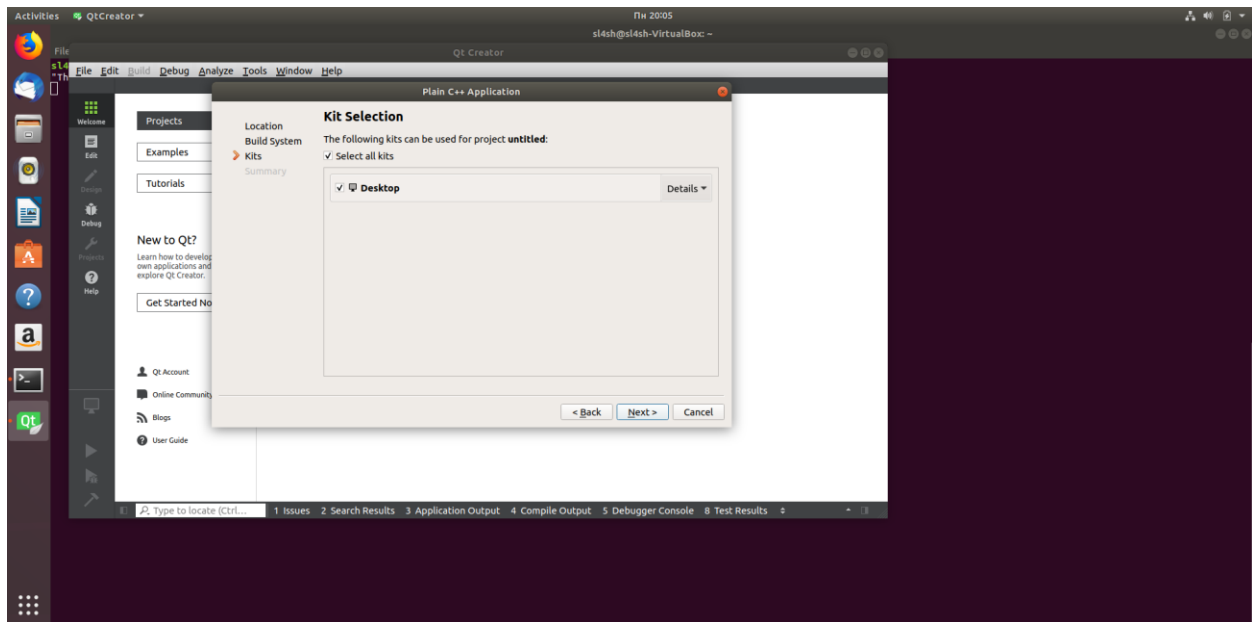
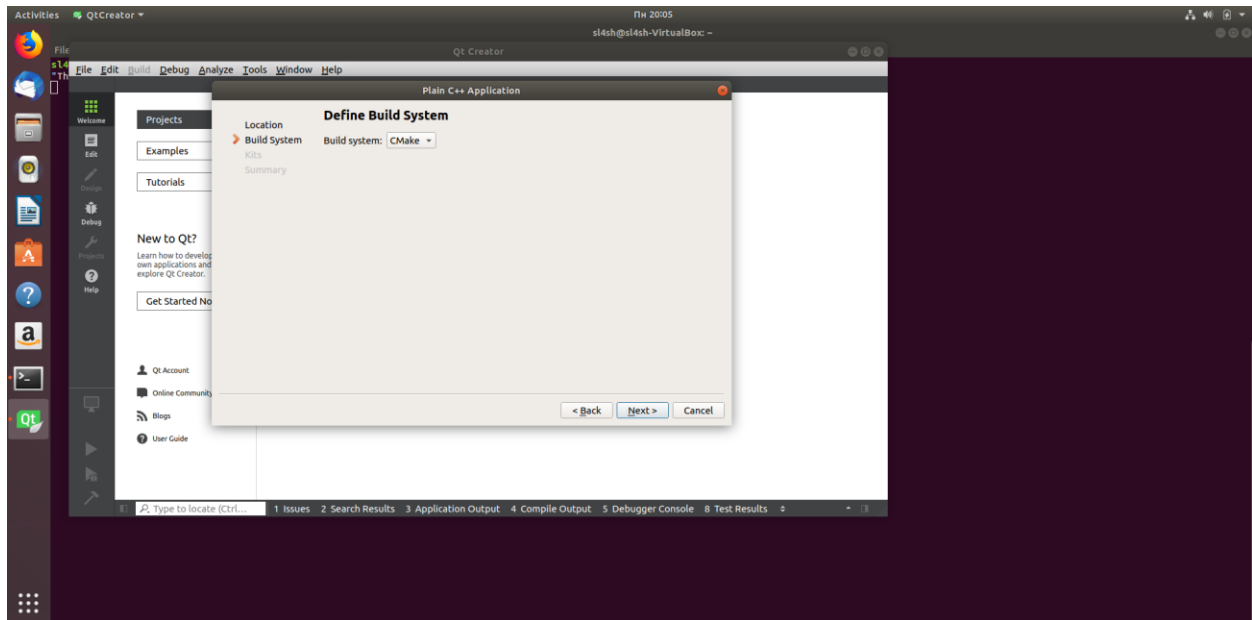
## Choose Non-Qt Project/Plain C++ Application



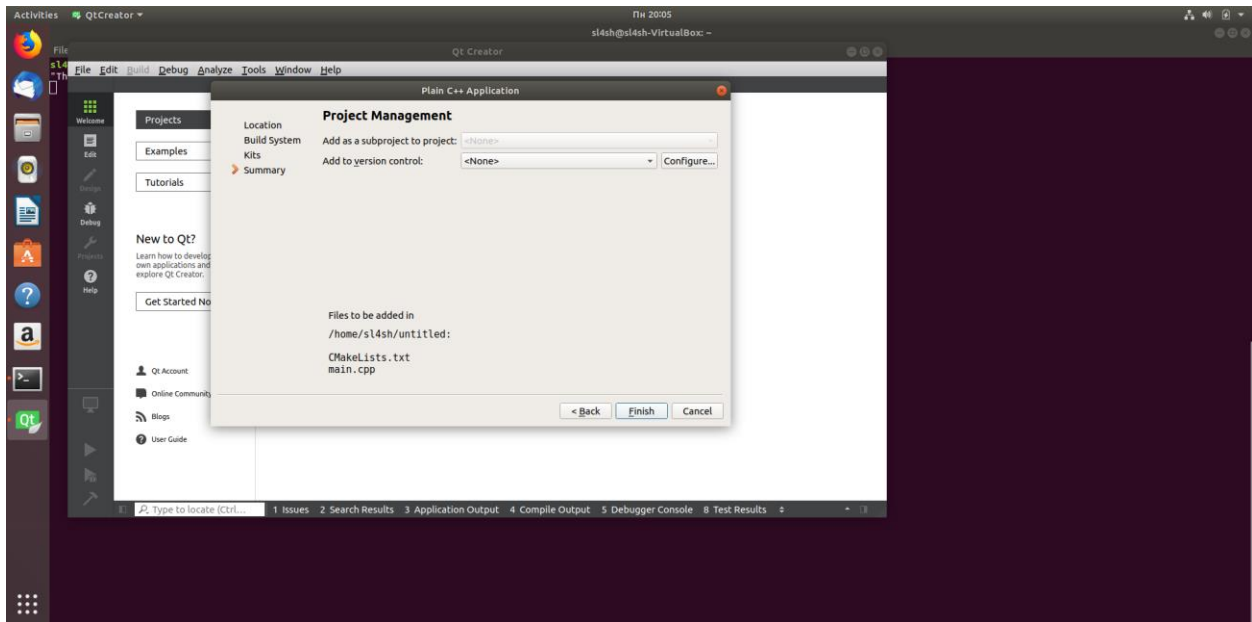
## Select project folder



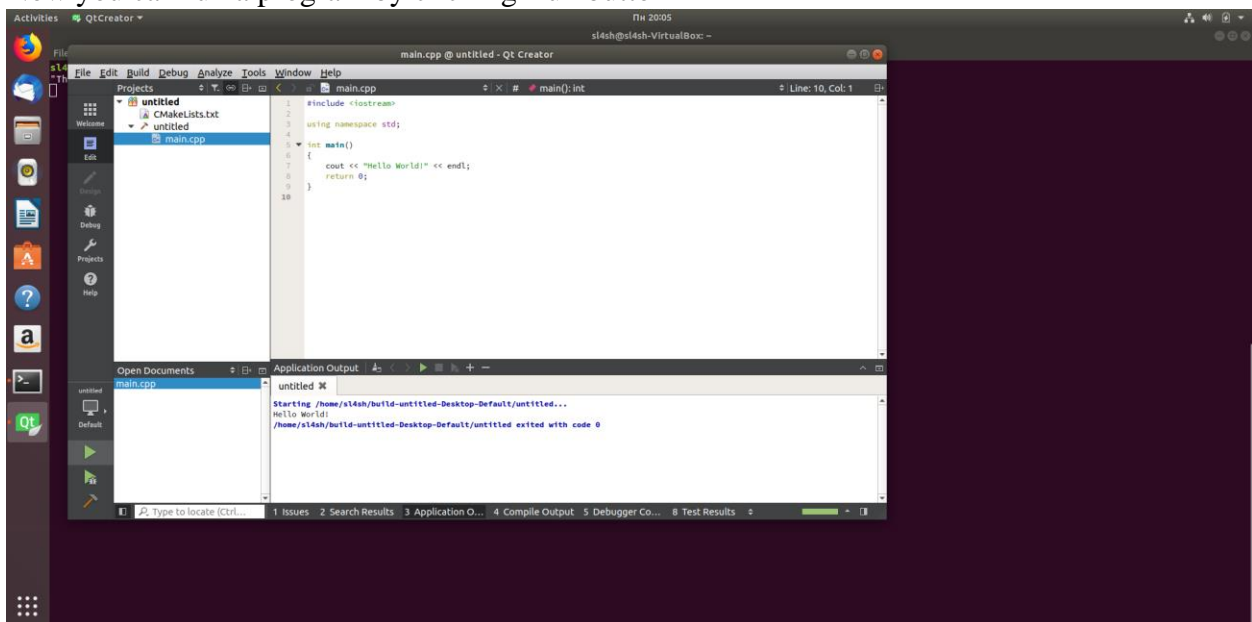
# Select CMake





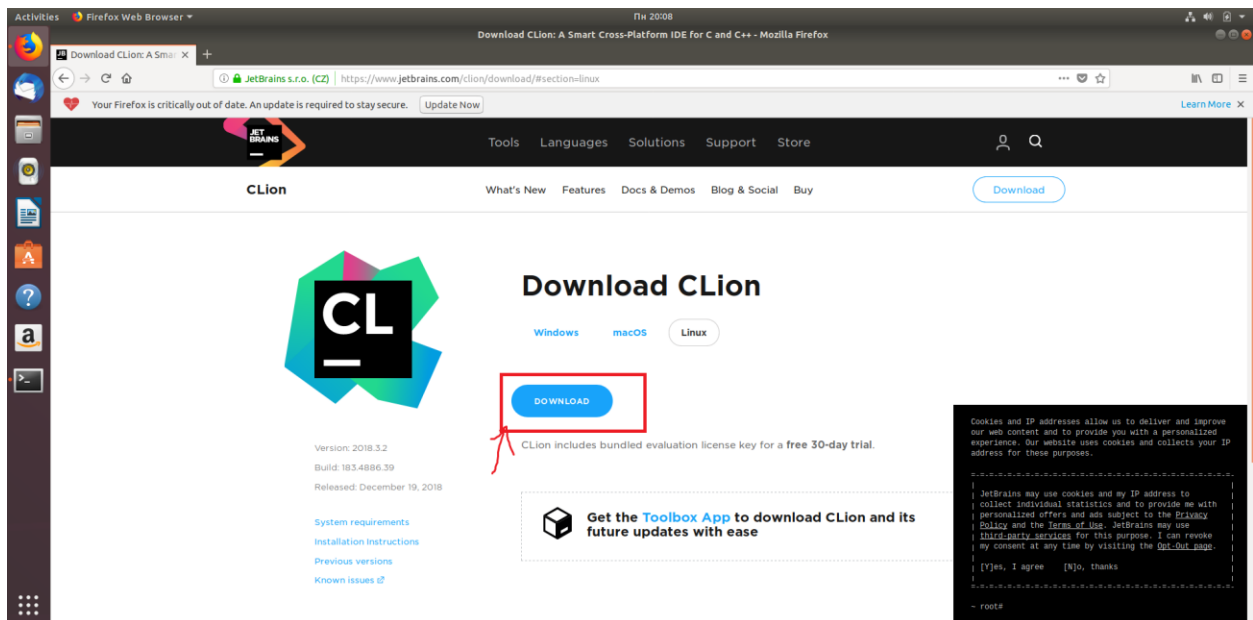
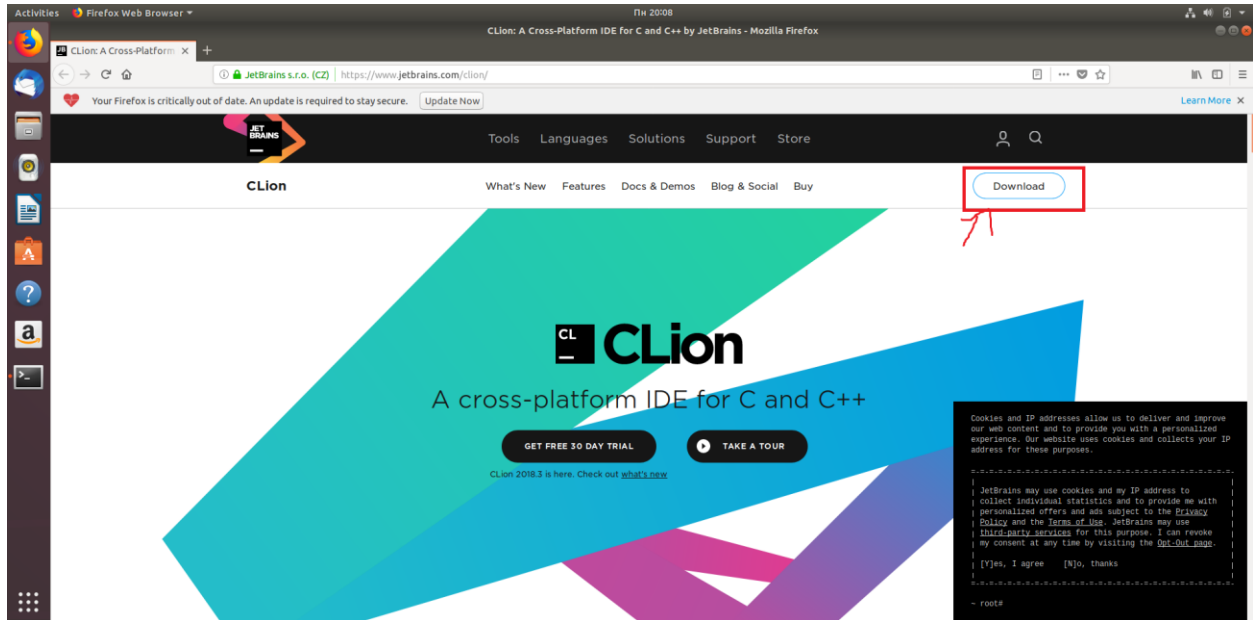


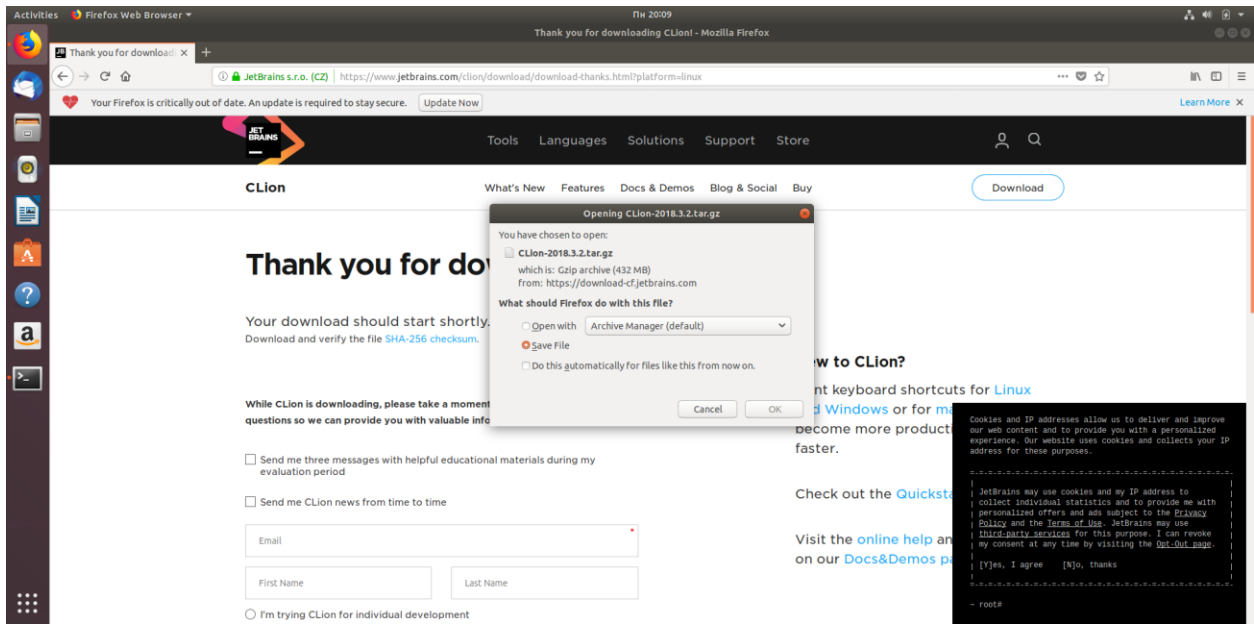
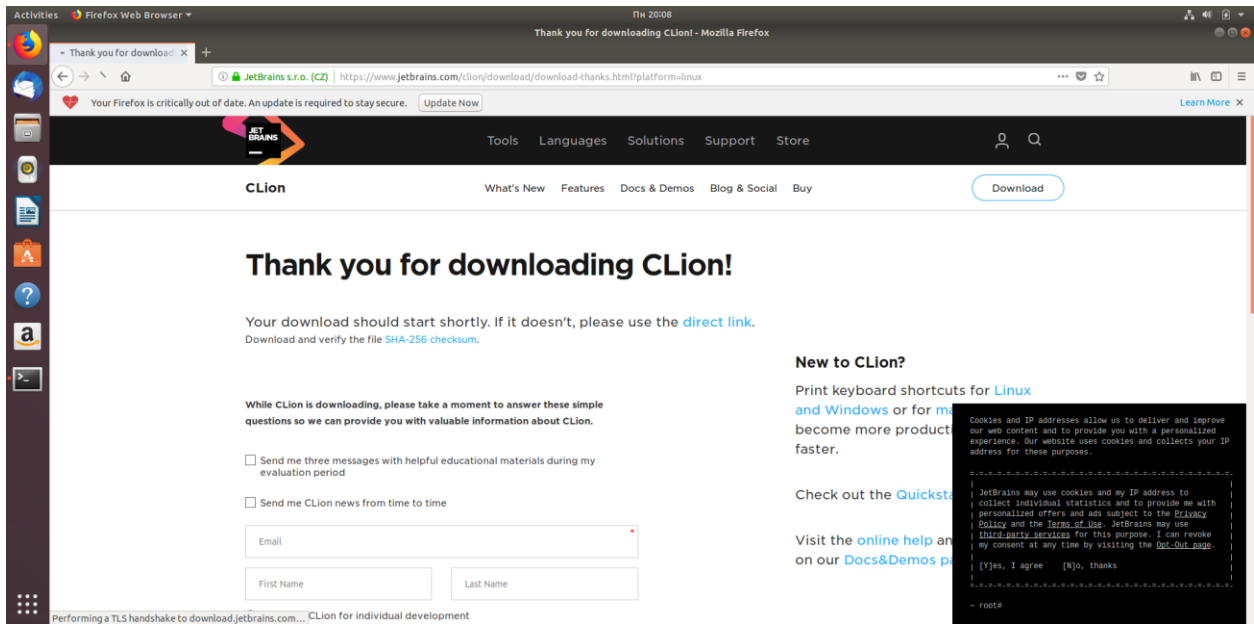
Now you can run a program by clicking Run button



# CLion

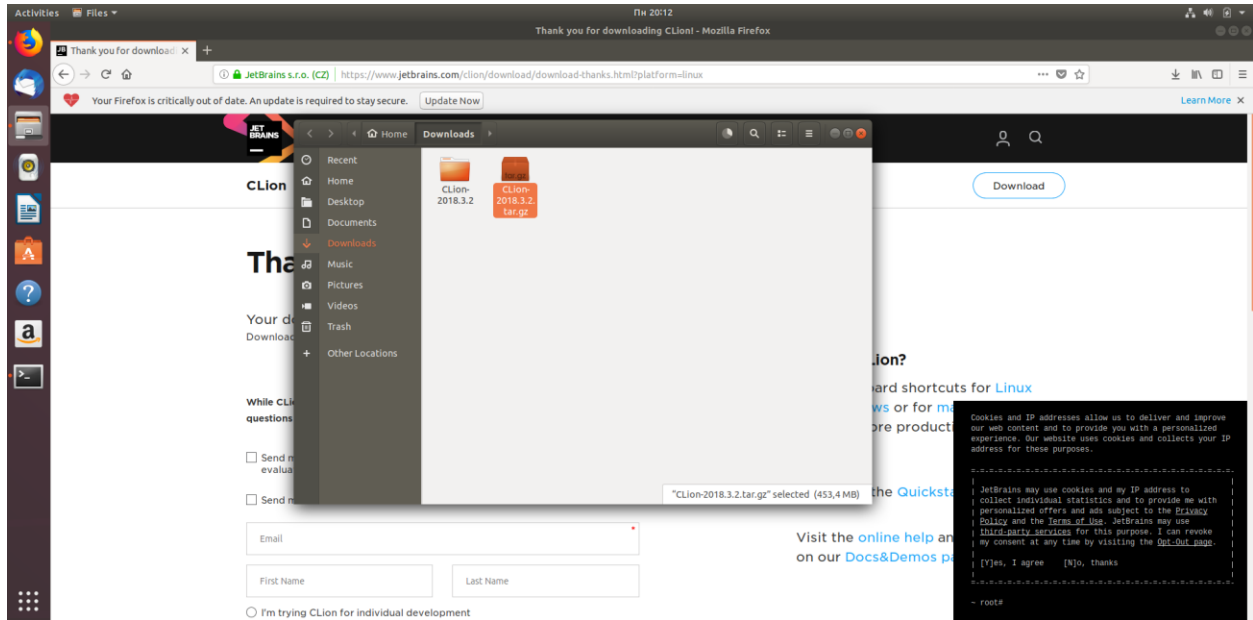
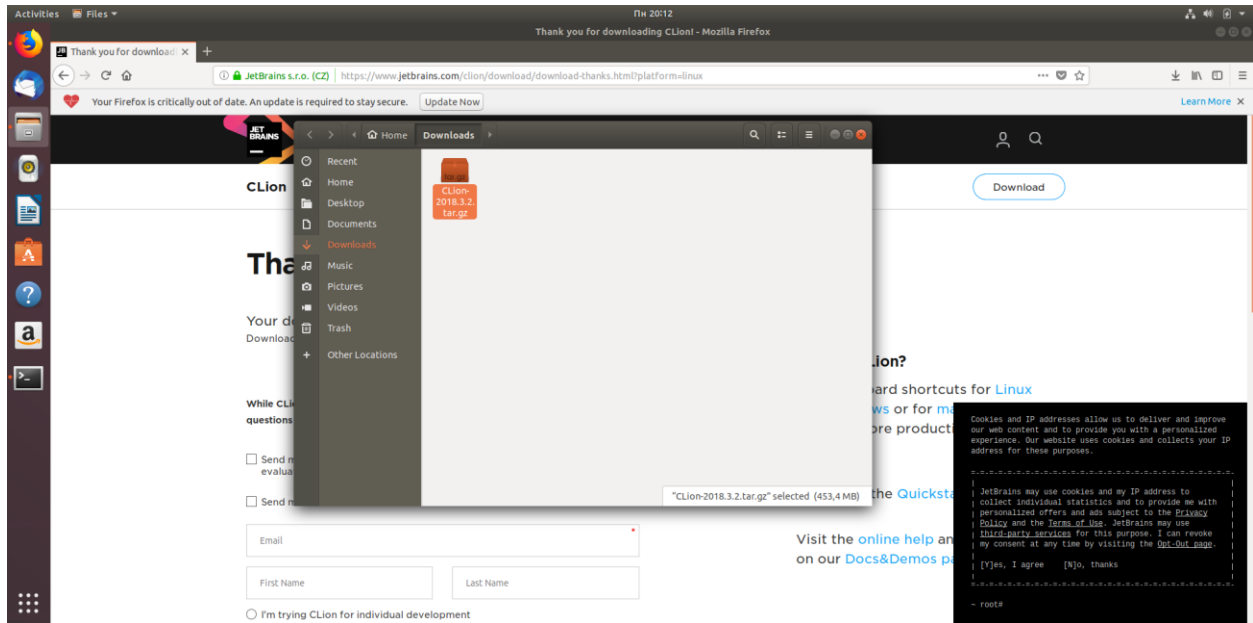
## CLion download



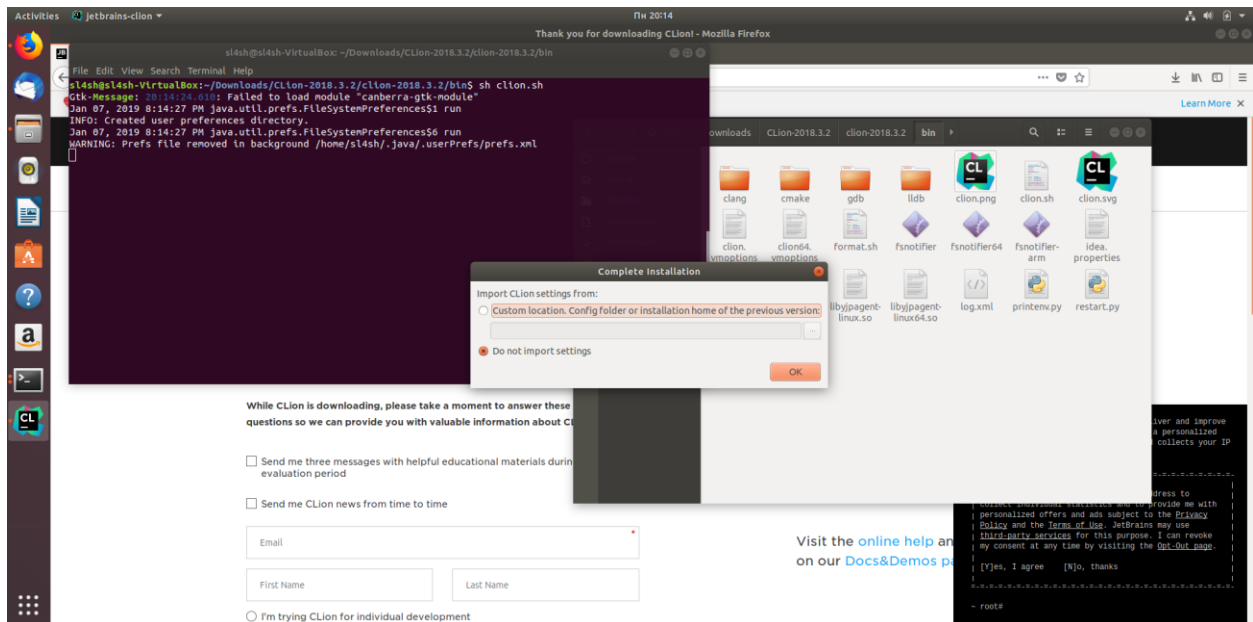
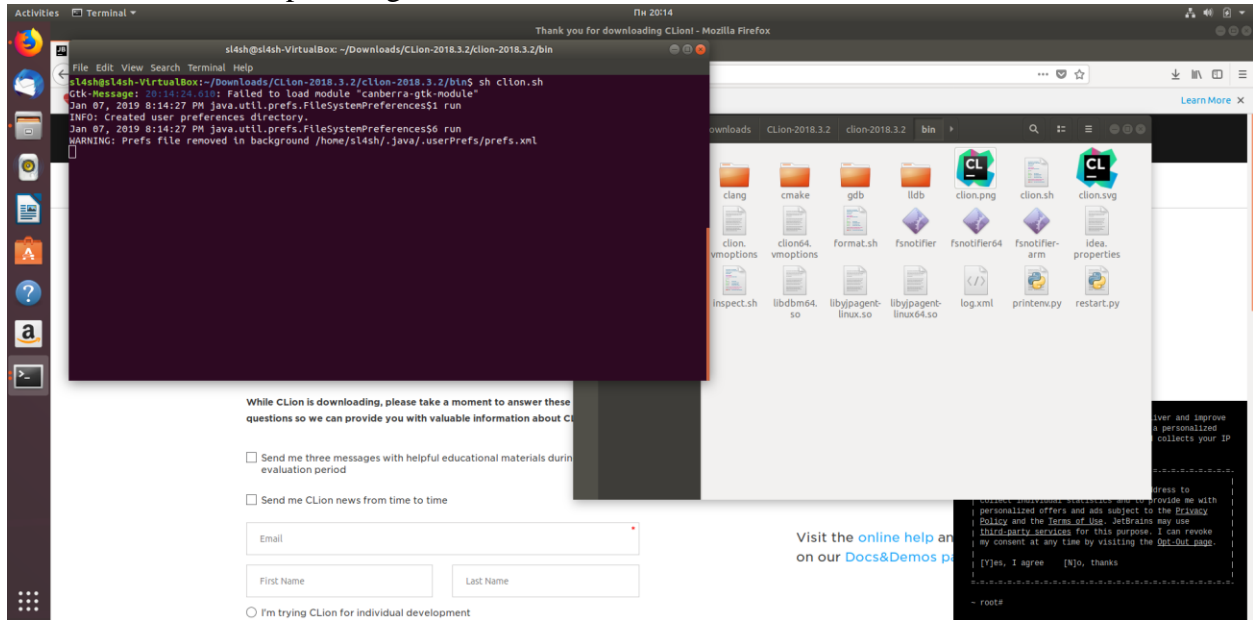


# CLion installation

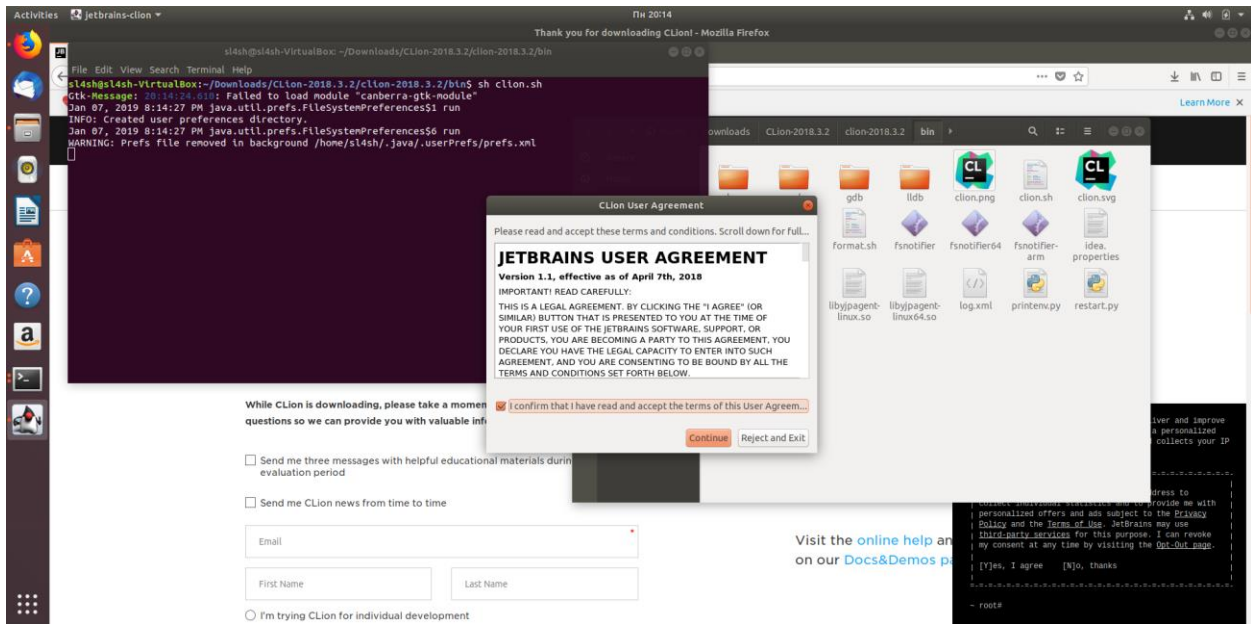
## Extract folder from archive



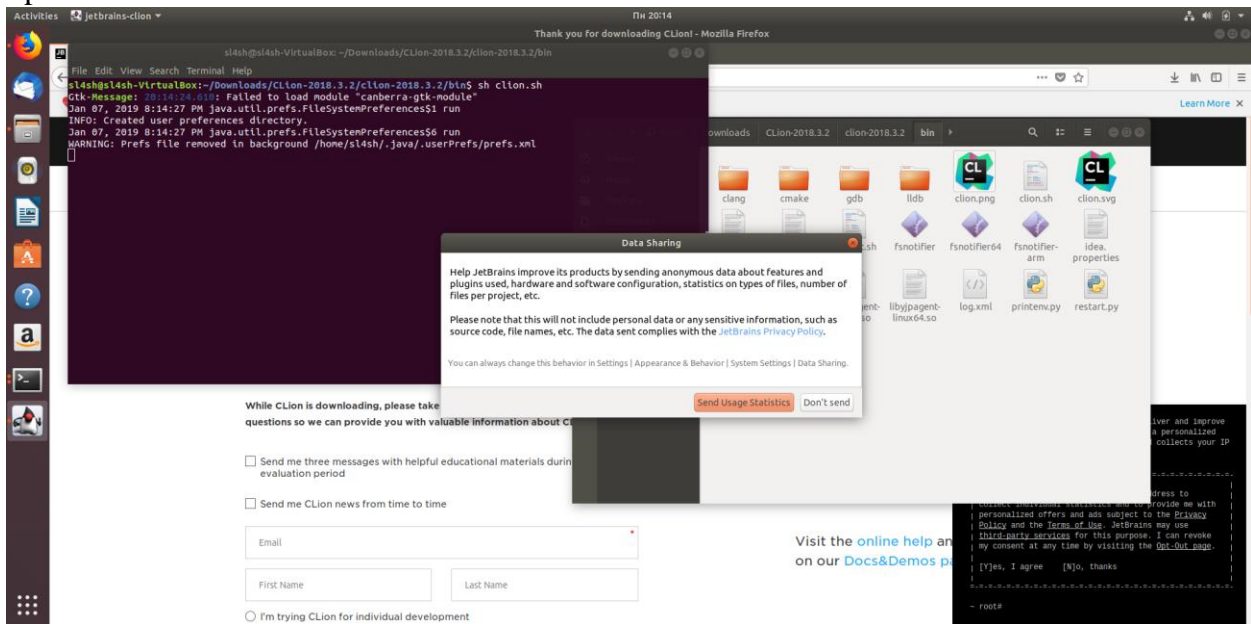
## Then run clion.sh script through terminal



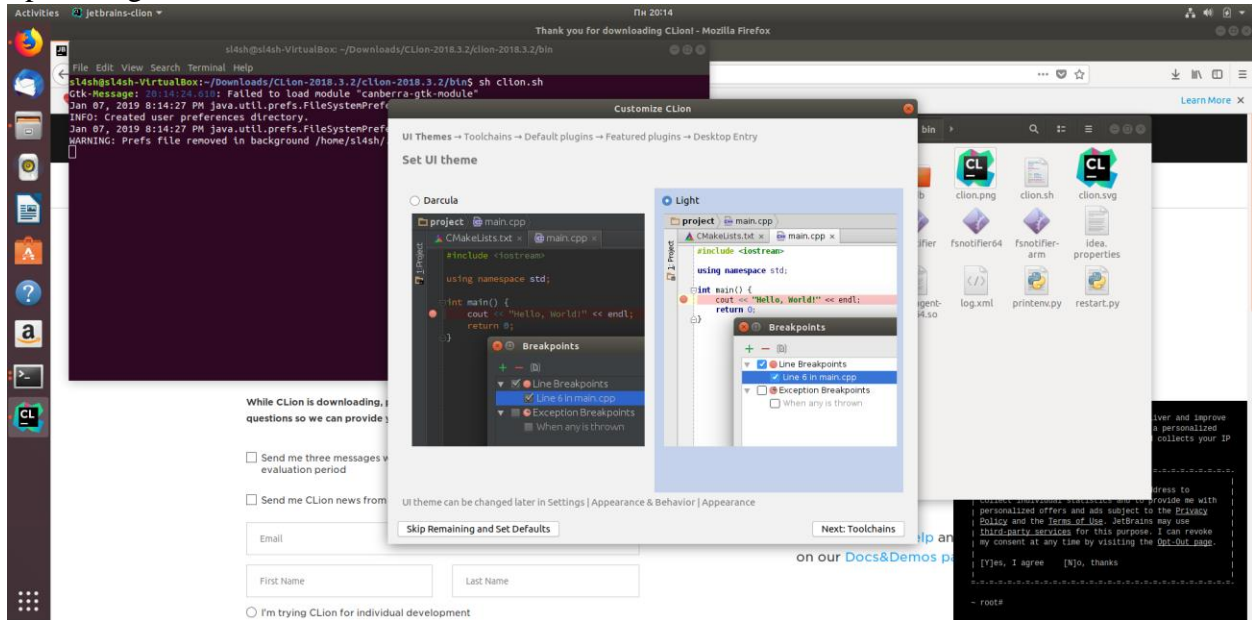




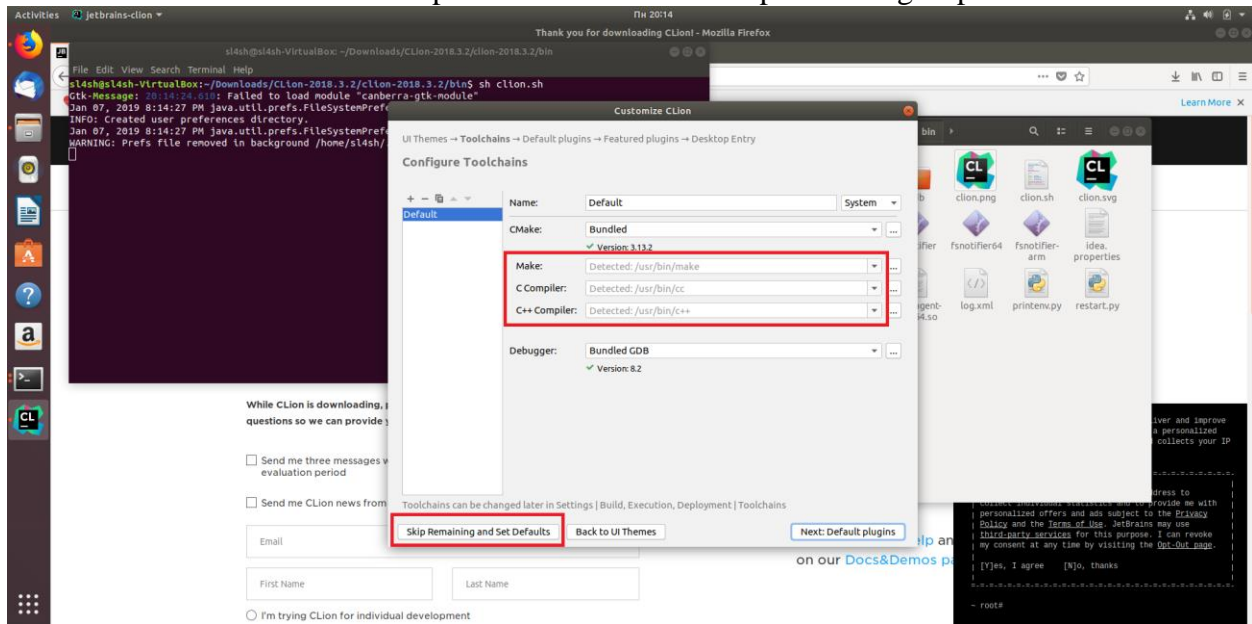
I prefer not to send



# 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)

The screenshot shows the CLion installation and activation process in a virtual machine. A terminal window displays the following output:

```
sl4sh@sl4sh-VirtualBox: ~/Downloads/CLion-2018.3.2/clion-2018.3.2/bin
sl4sh@sl4sh-VirtualBox: ~/Downloads/CLion-2018.3.2/clion-2018.3.2/bin$ sh clion.sh
clion: Message: 2019-01-07 18:14:27 PM: Failed to load module "canberra-gtk-module"
Jan 07, 2019 8:14:27 PM java.util.prefs.FileSystemPreferences$1 run
INFO: Created user preferences directory.
Jan 07, 2019 8:14:27 PM java.util.prefs.FileSystemPreferences$6 run
WARNING: Prefs file removed in background /home/sl4sh/.java/userPrefs/prefs.xml
```

A "CLion License Activation" dialog box is open, showing the "Activate" tab. The options are:

- Activate
- Evaluate for free

The "Activate license with:" section has three options:

- JetBrains Account
- Activation code
- License server

Fields for "Username or email:" and "Password:" are present, with a "Forgot?" link next to the password field. Buttons for "Activate" and "Exit" are at the bottom.

In the background, a file manager window shows the contents of the "bin" directory, including files like "gdb", "lldb", "clion.png", "clion.sh", "clion.svg", "format.sh", "fsnotifier", "fsnotifier64", "fsnotifier-arm", "idea.properties", "libjpagent-linux.so", "libjpagent-linux64.so", "log.xml", "printenv.py", and "restart.py".

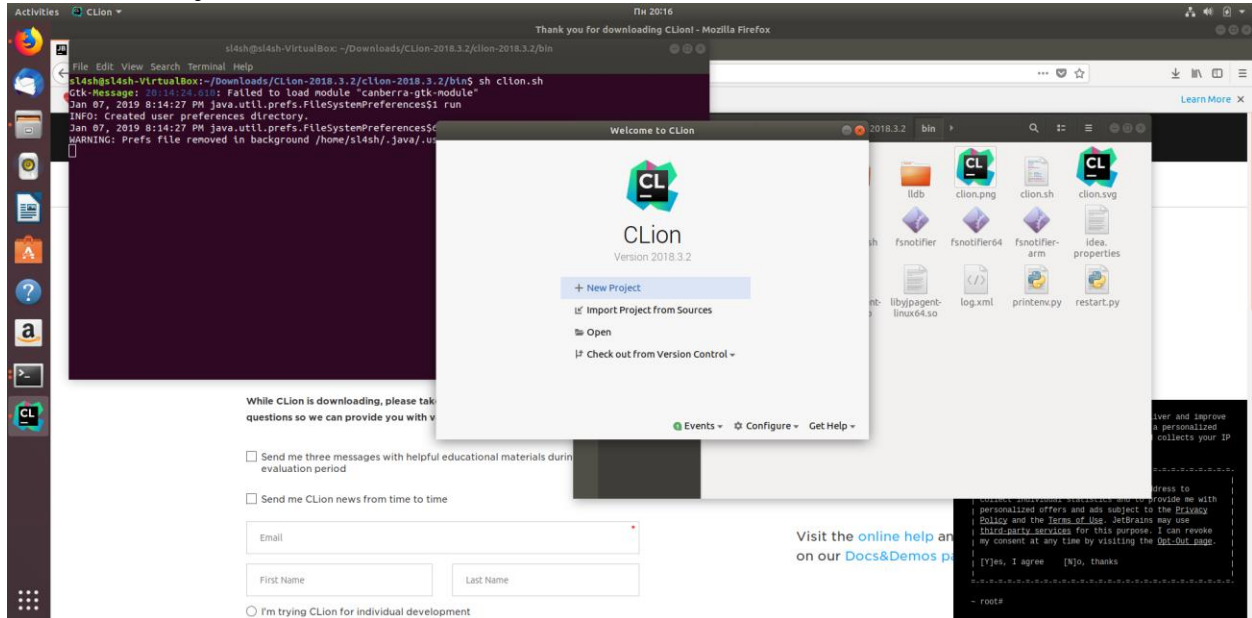
Below the license activation dialog, there is a registration form with the following fields and options:

- Send me three messages with helpful educational content during my evaluation period
- Send me CLion news from time to time
- Email:
- First Name:
- Last Name:
- I'm trying CLion for individual development

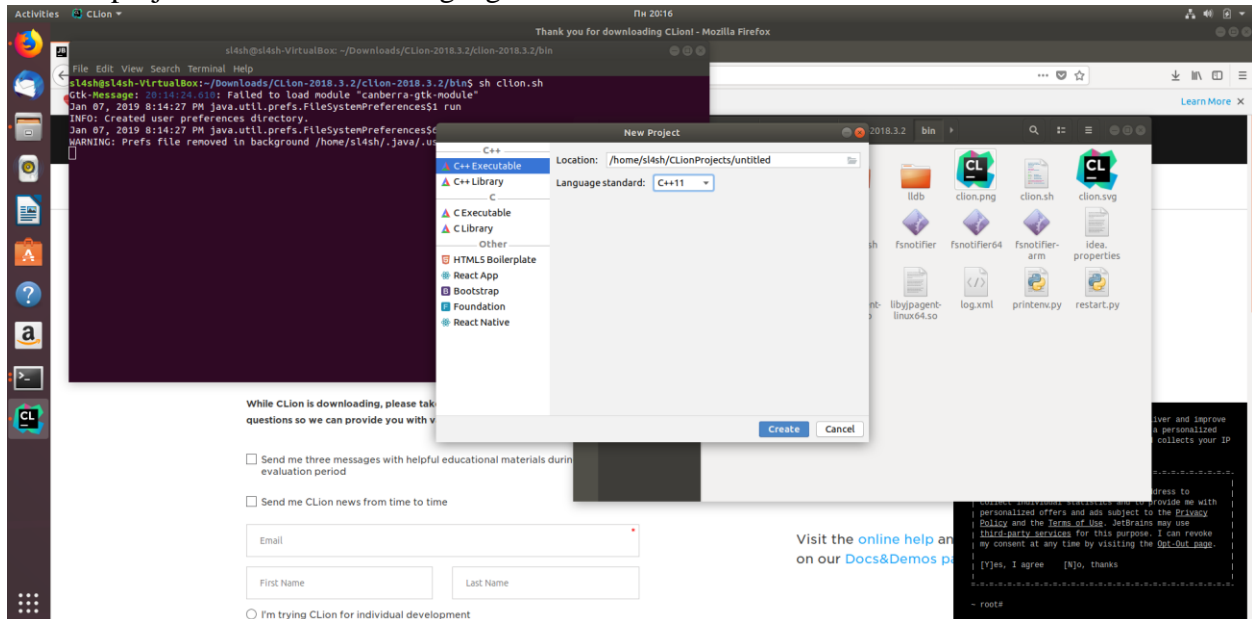
A "Visit the online help and documentation on our Docs&Demos page" link is also visible.

## 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

