```
Last login: Tue Feb 23 18:28:17 on ttys000
sanketjain@Sankets-MacBook-Pro:~$ ls -a
./                    .bash_history         .cups/            .meteorsession      Applications/         Music/
../                   .bash_profile         .duckpan/         .python27_compiled/  Desktop/             PaladinTem
p/
.CFUserTextEncoding   .bash_profile.pysave  .emacs.d/         .ssh/               Documents/            Pictures/
.DS_Store             .bash_sessions/       .matlab/          .subversion/        Downloads/            Public/
.Trash/               .cache/               .matplotlib/      .viminfo            Library/              perl5/
.android/             .cpan/                .meteor/          .xslate_cache/      Movies/
sanketjain@Sankets-MacBook-Pro:~$ vi .bash_profile
sanketjain@Sankets-MacBook-Pro:~$ pwd
/Users/sanketjain
sanketjain@Sankets-MacBook-Pro:~$ ls
Applications/  Documents/    Library/      Music/         Pictures/      perl5/
Desktop/       Downloads/    Movies/       PaladinTemp/   Public/
sanketjain@Sankets-MacBook-Pro:~$ cd Do
Documents/ Downloads/
sanketjain@Sankets-MacBook-Pro:~$ cd Downloads/
sanketjain@Sankets-MacBook-Pro:~/Downloads$ ls
ADE_4.0_Installer.dmg                  Photo0097.jpg                 matlab_R2015a_maci64/
AdobeFlashPlayer_17_ta_install.dmg     SecureW2_JoinNow.dmg          matlab_R2015a_maci64.zip
Flux34-3.zip                           bootstrap-3.3.6-dist/         opencv-3.1.0/
FlvPlayerSetup.dmg                     bootstrap-3.3.6-dist.zip      opencv-3.1.0.zip
JavaForOSX2014-001.dmg                 cmake-3.3.2-Darwin-x86_64.dmg python-2.7.9-macosx10.6.pkg
MathWorks/                             eclipse/                      useless/
PawPrint-Popup2-8-26-15.dmg            index.html*
Photo0096.jpg                          jdk-7u71-macosx-x64.dmg
sanketjain@Sankets-MacBook-Pro:~/Downloads$ clear
```

```
sanketjain@Sankets-MacBook-Pro:~/Downloads$ ls
ADE_4.0_Installer.dmg                  Photo0097.jpg                 matlab_R2015a_maci64/
AdobeFlashPlayer_17_ta_install.dmg     SecureW2_JoinNow.dmg          matlab_R2015a_maci64.zip
Flux34-3.zip                           bootstrap-3.3.6-dist/         opencv-3.1.0/
FlvPlayerSetup.dmg                     bootstrap-3.3.6-dist.zip      opencv-3.1.0.zip
JavaForOSX2014-001.dmg                 cmake-3.3.2-Darwin-x86_64.dmg python-2.7.9-macosx10.6.pkg
MathWorks/                             eclipse/                      useless/
PawPrint-Popup2-8-26-15.dmg            index.html*
Photo0096.jpg                          jdk-7u71-macosx-x64.dmg
sanketjain@Sankets-MacBook-Pro:~/Downloads$ cd Opencvtrial
-bash: cd: Opencvtrial: No such file or directory
sanketjain@Sankets-MacBook-Pro:~/Downloads$ mkdir Opencvtrial
sanketjain@Sankets-MacBook-Pro:~/Downloads$ ls
ADE_4.0_Installer.dmg                  Photo0096.jpg                 jdk-7u71-macosx-x64.dmg
AdobeFlashPlayer_17_ta_install.dmg     Photo0097.jpg                 matlab_R2015a_maci64/
Flux34-3.zip                           SecureW2_JoinNow.dmg          matlab_R2015a_maci64.zip
FlvPlayerSetup.dmg                     bootstrap-3.3.6-dist/         opencv-3.1.0/
JavaForOSX2014-001.dmg                 bootstrap-3.3.6-dist.zip      opencv-3.1.0.zip
MathWorks/                             cmake-3.3.2-Darwin-x86_64.dmg python-2.7.9-macosx10.6.pkg
Opencvtrial/                           eclipse/                      useless/
PawPrint-Popup2-8-26-15.dmg            index.html*
sanketjain@Sankets-MacBook-Pro:~/Downloads$ cd Opencvtrial/
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ clear
```

```
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ vi CMakeLists.txt
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ ls
CMakeLists.txt
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ vi BlurImage.cpp
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ ls
BlurImage.cpp   CMakeLists.txt
```

```
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ vi BlurImage.cpp
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ ls
BlurImage.cpp    CMakeLists.txt
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ ls -l
total 0
-rw-r--r--  1 sanketjain  staff    0B Feb 23 19:21 BlurImage.cpp
-rw-r--r--  1 sanketjain  staff    0B Feb 23 19:18 CMakeLists.txt
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ pwd
/Users/sanketjain/Downloads/Opencvtrial
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ ls
BlurImage.cpp    CMakeLists.txt
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ cd ..
sanketjain@Sankets-MacBook-Pro:~/Downloads$ pwd
/Users/sanketjain/Downloads
sanketjain@Sankets-MacBook-Pro:~/Downloads$ ls
ADE_4.0_Installer.dmg                Photo0096.jpg                jdk-7u71-macosx-x64.dmg
AdobeFlashPlayer_17_ta_install.dmg   Photo0097.jpg                matlab_R2015a_maci64/
Flux34-3.zip                         SecureW2_JoinNow.dmg         matlab_R2015a_maci64.zip
FlvPlayerSetup.dmg                   bootstrap-3.3.6-dist/        opencv-3.1.0/
JavaForOSX2014-001.dmg               bootstrap-3.3.6-dist.zip     opencv-3.1.0.zip
MathWorks/                           cmake-3.3.2-Darwin-x86_64.dmg python-2.7.9-macosx10.6.pkg
Opencvtrial/                         eclipse/                     useless/
PawPrint-Popup2-8-26-15.dmg          index.html*
sanketjain@Sankets-MacBook-Pro:~/Downloads$ cd ~
sanketjain@Sankets-MacBook-Pro:~$ clear




sanketjain@Sankets-MacBook-Pro:~$ ls
Applications/ Documents/    Library/       Music/         Pictures/      perl5/
Desktop/      Downloads/    Movies/        PaladinTemp/  Public/
sanketjain@Sankets-MacBook-Pro:~$ cd Desktop/
sanketjain@Sankets-MacBook-Pro:~/Desktop$ ls
EnrollmentCertificate.pdf                    The Economist audio/
Most Recent I-94.pdf                         fruits.jpg
SSN.pdf                                      opt and job/
Sciencedirect_articles_22Feb2016_12-15-02.196/     pd/
Sciencedirect_articles_22Feb2016_12-15-02.196.zip
sanketjain@Sankets-MacBook-Pro:~/Desktop$ pwd
/Users/sanketjain/Desktop
sanketjain@Sankets-MacBook-Pro:~/Desktop$ mv fruits.jpg ~/
.CFUserTextEncoding    .bash_profile.pysave  .emacs.d/           .ssh/            Documents/          Pictures/
.DS_Store             .bash_sessions/       .matlab/            .subversion/     Downloads/          Public/
.Trash/              .cache/               .matplotlib/        .viminfo         Library/            perl5/
.android/            .cpan/                .meteor/            .xslate_cache/   Movies/
.bash_history        .cups/                .meteorsession      Applications/    Music/
.bash_profile        .duckpan/             .python27_compiled/ Desktop/         PaladinTemp/
sanketjain@Sankets-MacBook-Pro:~/Desktop$ mv fruits.jpg ~/
.CFUserTextEncoding    .bash_profile.pysave  .emacs.d/           .ssh/            Documents/          Pictures/
.DS_Store             .bash_sessions/       .matlab/            .subversion/     Downloads/          Public/
.Trash/              .cache/               .matplotlib/        .viminfo         Library/            perl5/
.android/            .cpan/                .meteor/            .xslate_cache/   Movies/
.bash_history        .cups/                .meteorsession      Applications/    Music/
.bash_profile        .duckpan/             .python27_compiled/ Desktop/         PaladinTemp/
sanketjain@Sankets-MacBook-Pro:~/Desktop$ mv fruits.jpg ~/
.CFUserTextEncoding    .bash_profile.pysave  .emacs.d/           .ssh/            Documents/          Pictures/
.DS_Store             .bash_sessions/       .matlab/            .subversion/     Downloads/          Public/
.Trash/              .cache/               .matplotlib/        .viminfo         Library/            perl5/
.android/            .cpan/                .meteor/            .xslate_cache/   Movies/
.bash_history        .cups/                .meteorsession      Applications/    Music/
.bash_profile        .duckpan/             .python27_compiled/ Desktop/         PaladinTemp/
sanketjain@Sankets-MacBook-Pro:~/Desktop$ mv fruits.jpg ~/Downloads/
.DS_Store                            PawPrint-Popup2-8-26-15.dmg  jdk-7u71-macosx-x64.dmg
.localized                           Photo0096.jpg                matlab_R2015a_maci64/
ADE_4.0_Installer.dmg                Photo0097.jpg                matlab_R2015a_maci64.zip
AdobeFlashPlayer_17_ta_install.dmg   SecureW2_JoinNow.dmg         opencv-3.1.0/
Flux34-3.zip                         bootstrap-3.3.6-dist/        opencv-3.1.0.zip
FlvPlayerSetup.dmg                   bootstrap-3.3.6-dist.zip     python-2.7.9-macosx10.6.pkg
JavaForOSX2014-001.dmg               cmake-3.3.2-Darwin-x86_64.dmg useless/
MathWorks/                           eclipse/
Opencvtrial/                         index.html
sanketjain@Sankets-MacBook-Pro:~/Desktop$ mv fruits.jpg ~/Downloads/Opencvtrial
sanketjain@Sankets-MacBook-Pro:~/Desktop$ clear

sanketjain@Sankets-MacBook-Pro:~/Desktop$ cd -
/Users/sanketjain
sanketjain@Sankets-MacBook-Pro:~$ ls
Applications/ Documents/    Library/       Music/         Pictures/      perl5/
Desktop/      Downloads/    Movies/        PaladinTemp/  Public/
sanketjain@Sankets-MacBook-Pro:~$ ~/
.Trash/              .cups/                .meteor/            Applications/    Movies/         perl5/
```

```
.android/          .duckpan/          .python27_compiled/ Desktop/          Music/
.bash_sessions/    .emacs.d/          .ssh/                Documents/        PaladinTemp/
.cache/            .matlab/           .subversion/         Downloads/        Pictures/
.cpan/             .matplotlib/       .xslate_cache/       Library/          Public/
sanketjain@Sankets-MacBook-Pro:~$ ~/Downloads/
-bash: /Users/sanketjain/Downloads/: is a directory
sanketjain@Sankets-MacBook-Pro:~$ cd Downloads/
sanketjain@Sankets-MacBook-Pro:~/Downloads$ ls
ADE_4.0_Installer.dmg           Photo0096.jpg              jdk-7u71-macosx-x64.dmg
AdobeFlashPlayer_17_ta_install.dmg  Photo0097.jpg          matlab_R2015a_maci64/
Flux34-3.zip                    SecureW2_JoinNow.dmg       matlab_R2015a_maci64.zip
FlvPlayerSetup.dmg              bootstrap-3.3.6-dist/      opencv-3.1.0/
JavaForOSX2014-001.dmg          bootstrap-3.3.6-dist.zip   opencv-3.1.0.zip
MathWorks/                      cmake-3.3.2-Darwin-x86_64.dmg  python-2.7.9-macosx10.6.pkg
Opencvtrial/                    eclipse/                   useless/
PawPrint-Popup2-8-26-15.dmg     index.html*
sanketjain@Sankets-MacBook-Pro:~/Downloads$ cd Opencvtrial/
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ ls
BlurImage.cpp   CMakeLists.txt   fruits.jpg
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ clear




sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ ls
BlurImage.cpp   CMakeLists.txt   fruits.jpg
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ vi BlurImage.cpp
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ clear




sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ ls -l
total 176
-rw-r--r--  1 sanketjain  staff   612B Feb 23 19:31 BlurImage.cpp
-rw-r--r--  1 sanketjain  staff     0B Feb 23 19:18 CMakeLists.txt
-rw-r--r--@ 1 sanketjain  staff    80K Feb 23 19:20 fruits.jpg
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ vi CMakeLists.txt
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ clear
```

```
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ ls -l
total 184
-rw-r--r--  1 sanketjain  staff   612B Feb 23 19:31 BlurImage.cpp
-rw-r--r--  1 sanketjain  staff   225B Feb 23 19:32 CMakeLists.txt
-rw-r--r--@ 1 sanketjain  staff    80K Feb 23 19:20 fruits.jpg
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ pwd
/Users/sanketjain/Downloads/Opencvtrial
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ cd ~
sanketjain@Sankets-MacBook-Pro:~$ ls -l
total 0
drwx------    5 sanketjain  staff   170B Dec 15 20:54 Applications/
drwx------+ 12 sanketjain  staff   408B Feb 23 19:26 Desktop/
drwx------+ 15 sanketjain  staff   510B Feb 15 13:56 Documents/
drwx------+ 27 sanketjain  staff   918B Feb 23 19:20 Downloads/
drwx------@ 55 sanketjain  staff   1.8K Feb 10 10:07 Library/
drwx------+ 36 sanketjain  staff   1.2K Jan 29 15:38 Movies/
drwx------+ 10 sanketjain  staff   340B Jan 14 00:43 Music/
drwxr-xr-x   2 sanketjain  staff    68B Feb  9 11:04 PaladinTemp/
drwx------+ 11 sanketjain  staff   374B Nov 17 12:26 Pictures/
drwxr-xr-x+  5 sanketjain  staff   170B Dec 23  2014 Public/
drwxr-xr-x   5 root        staff   170B Jun 11  2015 perl5/
sanketjain@Sankets-MacBook-Pro:~$ cd Applications/
sanketjain@Sankets-MacBook-Pro:~/Applications$ ls
Chrome Apps.localized/
sanketjain@Sankets-MacBook-Pro:~/Applications$ ls
Chrome Apps.localized/
sanketjain@Sankets-MacBook-Pro:~/Applications$ cd ~
sanketjain@Sankets-MacBook-Pro:~$ ls
Applications/  Documents/    Library/     Pictures/     perl5/
Desktop/       Downloads/    Movies/      PaladinTemp/  Public/
sanketjain@Sankets-MacBook-Pro:~$ cd Downloads/
sanketjain@Sankets-MacBook-Pro:~/Downloads$ clear




sanketjain@Sankets-MacBook-Pro:~/Downloads$ ls
ADE_4.0_Installer.dmg              Photo0096.jpg                jdk-7u71-macosx-x64.dmg
AdobeFlashPlayer_17_ta_install.dmg  Photo0097.jpg                matlab_R2015a_maci64/
Flux34-3.zip                       SecureW2_JoinNow.dmg         matlab_R2015a_maci64.zip
FlvPlayerSetup.dmg                 bootstrap-3.3.6-dist/        opencv-3.1.0/
JavaForOSX2014-001.dmg             bootstrap-3.3.6-dist.zip     opencv-3.1.0.zip
MathWorks/                         cmake-3.3.2-Darwin-x86_64.dmg  python-2.7.9-macosx10.6.pkg
Opencvtrial/                       eclipse/                     useless/
PawPrint-Popup2-8-26-15.dmg        index.html*
sanketjain@Sankets-MacBook-Pro:~/Downloads$ cd Opencvtrial/
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ ls
BlurImage.cpp   CMakeLists.txt  fruits.jpg
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ ls -l
total 184
-rw-r--r--  1 sanketjain  staff   612B Feb 23 19:31 BlurImage.cpp
-rw-r--r--  1 sanketjain  staff   225B Feb 23 19:32 CMakeLists.txt
-rw-r--r--@ 1 sanketjain  staff    80K Feb 23 19:20 fruits.jpg
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ /Applications/CMake.app/Contents/bin/cmake .
-- The C compiler identification is AppleClang 7.0.2.7000181
-- The CXX compiler identification is AppleClang 7.0.2.7000181
-- Check for working C compiler: /Applications/Xcode.app/Contents/Developer/Toolchains/XcodeDefault.xctoolchain/usr/bin/
cc
-- Check for working C compiler: /Applications/Xcode.app/Contents/Developer/Toolchains/XcodeDefault.xctoolchain/usr/bin/
cc -- works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Detecting C compile features
```

```
-- Detecting C compile features - done
-- Check for working CXX compiler: /Applications/Xcode.app/Contents/Developer/Toolchains/XcodeDefault.xctoolchain/usr/bi
n/c++
-- Check for working CXX compiler: /Applications/Xcode.app/Contents/Developer/Toolchains/XcodeDefault.xctoolchain/usr/bi
n/c++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Configuring done
-- Generating done
-- Build files have been written to: /Users/sanketjain/Downloads/Opencvtrial
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ ls
BlurImage.cpp        CMakeFiles/          Makefile            fruits.jpg
CMakeCache.txt       CMakeLists.txt       cmake_install.cmake
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ clear


sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ ls
BlurImage.cpp        CMakeFiles/          Makefile            fruits.jpg
CMakeCache.txt       CMakeLists.txt       cmake_install.cmake
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ ls -l
total 240
-rw-r--r--   1 sanketjain  staff   612B Feb 23 19:31 BlurImage.cpp
-rw-r--r--   1 sanketjain  staff    14K Feb 23 19:41 CMakeCache.txt
drwxr-xr-x  15 sanketjain  staff   510B Feb 23 19:41 CMakeFiles/
-rw-r--r--   1 sanketjain  staff   225B Feb 23 19:32 CMakeLists.txt
-rw-r--r--   1 sanketjain  staff   4.9K Feb 23 19:41 Makefile
-rw-r--r--   1 sanketjain  staff   1.2K Feb 23 19:41 cmake_install.cmake
-rw-r--r--@  1 sanketjain  staff    80K Feb 23 19:20 fruits.jpg
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ make
Scanning dependencies of target BlurImage
[ 50%] Building CXX object CMakeFiles/BlurImage.dir/BlurImage.cpp.o
[100%] Linking CXX executable BlurImage
[100%] Built target BlurImage
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ ls -l
total 312
-rwxr-xr-x   1 sanketjain  staff    36K Feb 23 19:43 BlurImage*
-rw-r--r--   1 sanketjain  staff   612B Feb 23 19:31 BlurImage.cpp
-rw-r--r--   1 sanketjain  staff    14K Feb 23 19:41 CMakeCache.txt
drwxr-xr-x  15 sanketjain  staff   510B Feb 23 19:43 CMakeFiles/
-rw-r--r--   1 sanketjain  staff   225B Feb 23 19:32 CMakeLists.txt
-rw-r--r--   1 sanketjain  staff   4.9K Feb 23 19:41 Makefile
-rw-r--r--   1 sanketjain  staff   1.2K Feb 23 19:41 cmake_install.cmake
-rw-r--r--@  1 sanketjain  staff    80K Feb 23 19:20 fruits.jpg
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ ls -lh
total 312
-rwxr-xr-x   1 sanketjain  staff    36K Feb 23 19:43 BlurImage*
-rw-r--r--   1 sanketjain  staff   612B Feb 23 19:31 BlurImage.cpp
-rw-r--r--   1 sanketjain  staff    14K Feb 23 19:41 CMakeCache.txt
drwxr-xr-x  15 sanketjain  staff   510B Feb 23 19:43 CMakeFiles/
-rw-r--r--   1 sanketjain  staff   225B Feb 23 19:32 CMakeLists.txt
-rw-r--r--   1 sanketjain  staff   4.9K Feb 23 19:41 Makefile
-rw-r--r--   1 sanketjain  staff   1.2K Feb 23 19:41 cmake_install.cmake
-rw-r--r--@  1 sanketjain  staff    80K Feb 23 19:20 fruits.jpg
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ clear


sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ ./BlurImage fruits.jpg
^C
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ echo hi
hi
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ echo $path

sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ exho $PATH
-bash: exho: command not found
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ eCho $PATH
/Library/Frameworks/Python.framework/Versions/2.7/bin:/Library/Frameworks/Python.framework/Versions/2.7/bin:/Library/Fra
meworks/Python.framework/Versions/2.7/bin:/usr/local/bin:/usr/bin:/bin:/usr/sbin:/sbin
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ echo $PATH
/Library/Frameworks/Python.framework/Versions/2.7/bin:/Library/Frameworks/Python.framework/Versions/2.7/bin:/Library/Fra
meworks/Python.framework/Versions/2.7/bin:/usr/local/bin:/usr/bin:/bin:/usr/sbin:/sbin
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ $a = 5
-bash: =: command not found
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ $a=5
-bash: =5: command not found
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ a=5
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ echo a
a
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$ echo $a
5
sanketjain@Sankets-MacBook-Pro:~/Downloads/Opencvtrial$
```