```
Cloning into 'CppND-Capstone'.
remote: Enumerating objects: 82, done.
remote: Counting objects: 100% (17/17), done.
remote: Compressing objects: 100% (17/17), done.
remote: Total 82 (delta 5), reused 0 (delta 0), pack-reused 65
Unpacking objects: 100% (82/82), 6.73 MiB | 7.48 MiB/s, done.
said@LAPTOP-7ROMB6F7:~$ cd CppND-Capstone/
    aid@LAPTOP-7ROMB6F7:~/CppND-Capstone$ ls
  CMakeLists.txt README.md imgs input_files outputs src test
   said@LAPTOP-7ROMB6F7:~/CppND-Capstone$ mkdir release
   said@LAPTOP-7ROMB6F7:~/CppND-Capstone$ cd release
   said@LAPTOP-7ROMB6F7:~/CppND-Capstone/release$ cmake ...
       The CXX compiler identification is GNU 10.3.0 Check for working CXX compiler: /usr/bin/c++ Check for working CXX compiler: /usr/bin/c++ -- works
        Detecting CXX compiler ABI info
Detecting CXX compiler ABI info - done
        Detecting CXX compile features
Detecting CXX compile features - done
         The C compiler identification is GNU 10.3.0
       The C compiler identification is GNU 10.3.0 Check for working C compiler: /usr/bin/cc Check for working C compiler: /usr/bin/cc -- works Detecting C compiler ABI info Detecting C compiler ABI info - done Detecting C compile features

Detecting C compile features - done
         Found Python: /usr/bin/python3.8 (found version "3.8.10") found components: Interpreter
       Looking for pthread.h
Looking for pthread.h - found
Performing Test CMAKE_HAVE_LIBC_PTHREAD
Performing Test CMAKE_HAVE_LIBC_PTHREAD - Failed
       Looking for pthread_create in pthreads - not found
Looking for pthread_create in pthreads - not found
Looking for pthread_create in pthread
Looking for pthread_create in pthread
Looking for pthread_create in pthread - found
Found Threads: TRUE
Found GTest: /usr/lib/x86_64-linux-gnu/libgtest.a
Found OpenCV: /usr/local (found suitable version "4.5.5", minimum required is "4.1")
Configuring date
         Configuring done
        Generating done
        Build files have been written to: /home/said/CppND-Capstone/release
   said@LAPTOP-7ROMB6F7:~/CppND-Capstone/release$ make
     10%] Building CXX object CMakeFiles/cascade_classifier_multithread.dir/src/cpp/cascade_classifier_multithread.cpp.o
20%] Linking CXX executable bin/cascade_classifier_multithread
                 Built target cascade_classifier_multithread
      30%] Building CXX object CMakeFiles/cascade_classifier_singlethread.dir/src/cpp/cascade_classifier_singlethread.cpp.o
                  Linking CXX executable bin/cascade_classifier_singlethread
      40%] Built target cascade_classifier_singlethread
                 ng dependencies of target gtest
Building CXX object _deps/gtest-build/googletest/CMakeFiles/gtest.dir/src/gtest-all.cc.o
Linking CXX static library ../../lib/libgtest.a
      60%] Built target gtest
                ng dependencies of target gtest_main
Building CXX object _deps/gtest-build/googletest/CMakeFiles/gtest_main.dir/src/gtest_main.cc.o
Linking CXX static library ../../../lib/libgtest_main.a
     80%] Built target gtest_main
                  Linking CXX executable bin/test_core
  [100%] Built target test_core
said@APTOP-7ROMB6F7:~/CpNND-Capstone/release$ ./bin/cascade_classifier_multithread ../inp
16 files will be processed.
0) "../input_files/09.jpg" -> "./your_last_processed_images_multithread/09_modified.jpg"
1) "../input_files/14.jpg" -> "./your_last_processed_images_multithread/14_modified.jpg"
2) "../input_files/03.jpg" -> "./your_last_processed_images_multithread/03_modified.jpg"
3) "../input_files/02.jpg" -> "./your_last_processed_images_multithread/02_modified.jpg"
4) "../input_files/10.jpg" -> "./your_last_processed_images_multithread/10_modified.jpg"
5) "../input_files/01.jpg" -> "./your_last_processed_images_multithread/01_modified.jpg"
6) "../input_files/07.jpg" -> "./your_last_processed_images_multithread/05_modified.jpg"
7) "../input_files/05.jpg" -> "./your_last_processed_images_multithread/04_modified.jpg"
8) "../input_files/06.jpg" -> "./your_last_processed_images_multithread/06_modified.jpg"
9) "../input_files/12.jpg" -> "./your_last_processed_images_multithread/12_modified.jpg"
10) "../input_files/13.jpg" -> "./your_last_processed_images_multithread/13_modified.jpg"
12) "../input_files/09.png" -> "./your_last_processed_images_multithread/13_modified.jpg"
13) "../input_files/08.jpg" -> "./your_last_processed_images_multithread/09_modified.jpg"
15) "../input_files/08.jpg" -> "./your_last_processed_images_multithread/11_modified.jpg"
15) "../input_files/11.jpeg" -> "./your_last_processed_images_multithread/11_modified.jpg"
15) "../input_files/11.jpeg" -> "./your_last_processed_images_multithread/11_modified.jpg"
16) "../input_files/08.jpg" -> "./your_last_processed_images_multithread/11_modified.jpg"
17) "../input_files/08.jpg" -> "./your_last_processed_images_multithread/11_modified.jpg"
18) "../input_files/08.jpg" -> "./your_last_processed_images_multithread/11_modified.jpg"
19) "../input_files/08.jpg" -> "./your_last_processed_images_multithread/11_modified.jpg"
19) "../input_files/08.jpg" -> "./your_last_processed_images_multithread/11_modified.jpg"
19) "../input_files/08.jpg" -> "./your_la
                                             F7:~/CppND-Capstone/release$ ./bin/cascade_classifier_multithread ../input_files/
  15) "../input_files/11.jpeg" -> "./your_last_processed_images_multithread/11_modified.jpeg" ./your_last_processed_images_multithread/ does not exist. A new directory is created.
 If you are fine with processing of the file as described above, respond with Yes or yes!
   >> yes
 You answered 'yes'.
 Start processing...
  said@LAPTOP-7ROMB6F7:~/CppND-Capstone/release$ ls your_last_processed_images_multithread/
                                                                                                                                                                                                          10_modified.jpg 12_modified.jpg
11_modified.jpeg 13_modified.jpg
   said@LAPTOP-7ROMB6F7:~/CppND-Capstone/release$
          d@LAPTOP-7ROMB6F7:~/CppND-Capstone/release$ ./bin/test_core
 Running main() from /home/said/CppND-Capstone/release/_deps/gtest-src/googletest/src/gtest_main.cc
                      ===] Running 8 tests from 2 test suites.
```

7:~\$ git clone https://github.com/SaidZahrai/CppND-Capstone

```
Global test environment set-up.
                     4 tests from OperatorTest
OperatorTest.ChechOneOperator
INFO
                     Test of operator 1 int -> float.
                     OperatorTest.ChechOneOperator (0 ms)
OperatorTest.CheckTwoOperators
Test of int -> float -> floor.
INFO
                     OperatorTest.CheckTwoOperators (0 ms)
                     OperatorTest.LinkedTwoOperators
                     OperatorTest.LinkedTwoOperatorS
Test of linked operators.
OperatorTest.LinkedTwoOperators (0 ms)
OperatorTest.SourceAndSink
Test of linked operators with source and sink.
INFO
TNFO
                     OperatorTest.SourceAndSink (0 ms)
4 tests from OperatorTest (1 ms total)
                     4 tests from ExecutionTest ExecutionTest.OneThreadTest
                    ExecutionTest.OneThreadTest
Test of linked operators run in a thread.
ExecutionTest.OneThreadTest (1 ms)
ExecutionTest.TwoThreadsTest
Test of linked operators run in two threads.
ExecutionTest.TwoThreadsTest (201 ms)
ExecutionTest.TwoThreadsCompleteTest
Test of linked operators run in two threads with souce and sink.
ExecutionTest.FourThreadsCompleteTest (508 ms)
ExecutionTest.FourThreadsCompleteTestRun5times
Test of linked operators run in two threads with souce and sink.
INFO
INFO
INFO
                     Test of linked operators run in two threads with souce and sink should run 5 times only.
INFO
INFO
                     All results obtained.
INFO
                     Wait for Source to end .
INFO
                     Source ended.
INFO
                     Wait for Exec1 to end.
                    Exec1 ended.
Wait for Exec2 to end.
Exec2 ended.
Wait for Sink to end.
INFO
INFO
INFO
INFO
INFO
                     Sink ended.
                     ExecutionTest.FourThreadsCompleteTestRun5times (707 ms)
                     4 tests from ExecutionTest (1418 ms total)
                     Global test environment tear-down
8 tests from 2 test suites ran. (1421 ms total)
                     8 tests.
 id@LAPTOP-7ROMB6F7:~/CppND-Capstone/release$
```