TASK 1

下载安装了wsl2系统,在第一次下载过程中,按照csdn教程去做但是在转移系统位置到d盘时没有理解下图命令中**名称**和版本的所指的是什么导致没有成功转移

: wsl --unregister 名称,然后重新导入WSL并安装在目标盘: wsl --import 版本 导入位置

最后根据其它教程完成该任务 wsl系统由于没有图形化界面,使用不方便,所以自己在利用wsl系统完成了本次任务后,也会抽时间安装双系统

TASK 3

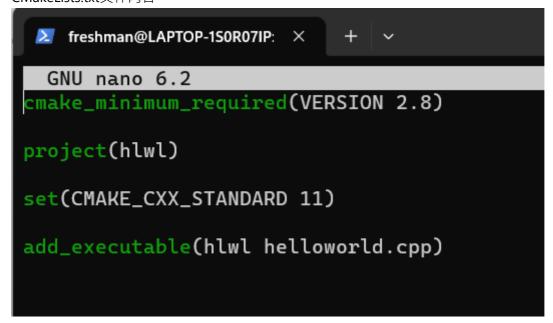
- 最常用命令位于bin目录下
- 创建文件并编译输出"Hello world!"过程如下

TASK 4

• 文件目录

```
freshman@LAPTOP-1S0R07IP:~/hlwl$ ls
CMakeLists.txt README.md build helloworld.cpp hlwl
```

• CMakeLists.txt文件内容



• cmake过程注意L大写

```
freshman@LAPTOP-1SOR07IP:~/hlwl/build$ cmake ...
CMake Deprecation Warning at CMakeLists.txt:1 (cmake_minimum_required):
  Compatibility with CMake < 2.8.12 will be removed from a future version of
  CMake.
 Update the VERSION argument <min> value or use a ...<max> suffix to tell
 CMake that the project does not need compatibility with older versions.
-- Configuring done
-- Generating done
-- Build files have been written to: /home/freshman/hlwl/build
freshman@LAPTOP-1S0R07IP:~/hlwl/build$ make
[ 50%] Building CXX object CMakeFiles/hlwl.dir/helloworld.cpp.o
[100%] Linking CXX executable hlwl
[100%] Built target hlwl
freshman@LAPTOP-1SORO7IP:~/hlwl/build$ ls
CMakeCache.txt CMakeFiles Makefile cmake_install.cmake hlwl
freshman@LAPTOP-1SOR07IP:~/hlwl/build$ ./hlwl
Hello world!
freshman@LAPTOP-1S0R07IP:~/hlwl/build$
```

TASK 5

```
freshman@LAPTOP-1S0R07IP:~/hlwl$ pkg-config --modversion opencv4
4.6.0
```

环境配置花费大量时间,遇到如下两个问题

- 报错: libcuda.so.1 is not a symbolic link
 发现自己做到这一步时系统装的有问题,重装一遍后问题消失
- 找不到 opencv4.pc文件
 参考其它博客·cmake时配置如下

```
cmake -D WITH_TBB=ON -D WITH_EIGEN=ON -D OPENCV_GENERATE_PKGCONFIG=ON ..
cmake -D BUILD_DOCS=ON -D BUILD_TESTS=OFF -D BUILD_PERF_TESTS=OFF -D
```

```
BUILD_EXAMPLES=OFF ..

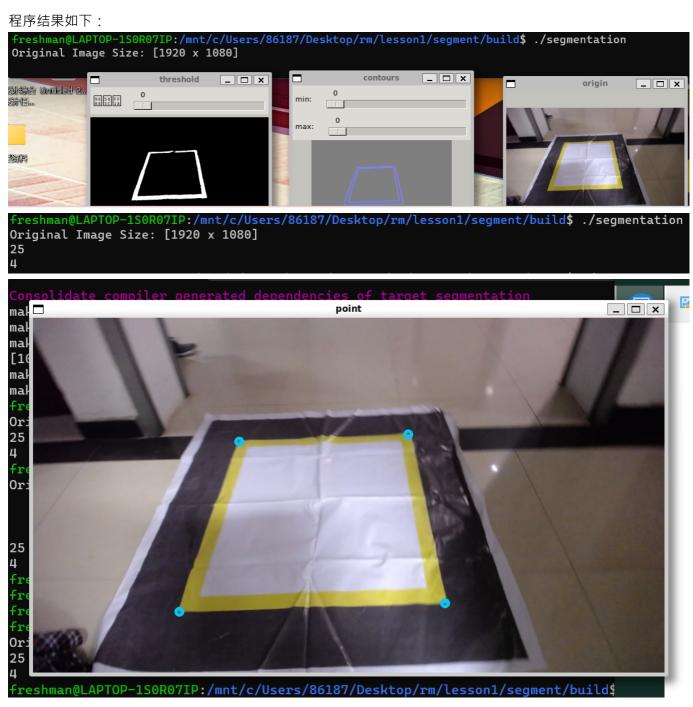
cmake -D WITH_OPENCL=OFF -D WITH_CUDA=OFF -D BUILD_opencv_gpu=OFF -D

BUILD_opencv_gpuarithm=OFF -D BUILD_opencv_gpubgsegm=O

cmake -D CMAKE_BUILD_TYPE=RELEASE -D CMAKE_INSTALL_PREFIX=/usr/local ..
```

后利用find ./ -name opencv4.pc 成功找到该文件位置,问题解决

TASK 6



cmake过程

```
reshman@LAPTOP-1S0R07IP:/mnt/c/Users/86187/Desktop/rm/lesson1/segment$ cd build
freshman@LAPTOP-1S0R07IP:/mnt/c/Users/86187/Desktop/rm/lesson1/segment/build$ cmake ..
CMake Deprecation Warning at CMakeLists.txt:1 (cmake_minimum_required):
  Compatibility with CMake < 2.8.12 will be removed from a future version of
  CMake.
  Update the VERSION argument <min> value or use a ...<max> suffix to tell
  CMake that the project does not need compatibility with older versions.
 - Configuring done
 - Generating done
 - Build files have been written to: /mnt/c/Users/86187/Desktop/rm/lesson1/segment/build
freshman@LAPTOP-150R07IP:/mnt/c/Users/86187/Desktop/rm/lesson1/segment/build$ make
make: Warning: File 'Makefile' has modification time 2013 s in the future
make[1]: Warning: File 'CMakeFiles/Makefile2' has modification time 2013 s in the future
make[2]: Warning: File 'CMakeFiles/segmentation.dir/progress.make' has modification time 2013 s
make[2]: warning: Clock skew detected. Your build may be incomplete.
make[2]: Warning: File 'CMakeFiles/segmentation.dir/progress.make' has modification time 2012 s
make[2]: warning: Clock skew detected. Your build may be incomplete.
[100%] Built target segmentation
make[1]: warning: Clock skew detected. Your build may be incomplete.
make: warning: Clock skew detected. Your build may be incomplete. freshman@LAPTOP-1SORO7IP:/mnt/c/Users/86187/Desktop/rm/lesson1/segment/build$ ./segmentation
Original Image Size: [1920 x 1080]
```

makelists.txt文件内容如下:

```
cmake_minimum_required(VERSION 2.8)
project(segmentation)
set(CMAKE_CXX_STANDARD 11)

find_package(OpenCV 4 REQUIRED)

include_directories(${OPENCV_INCLUDE_DIRS})
set(SOURCE_FILES src/main.cpp src/segment.cpp )

add_executable(segmentation ${SOURCE_FILES})
target_link_libraries(segmentation ${OpenCV_LIBS})
```