

# **Homework Bonus**

CMake

# CMake

- Write your own library, with a function: **square**
  - Switch between SHARED/STATIC library built with **cmake options**
  - Use `add_subdirectory` to include sub project
- Link to 3<sup>rd</sup> library: NANA GUI and FMT
  - Use NANA to popup message box of your function result
  - Use FMT to format string

# Structure

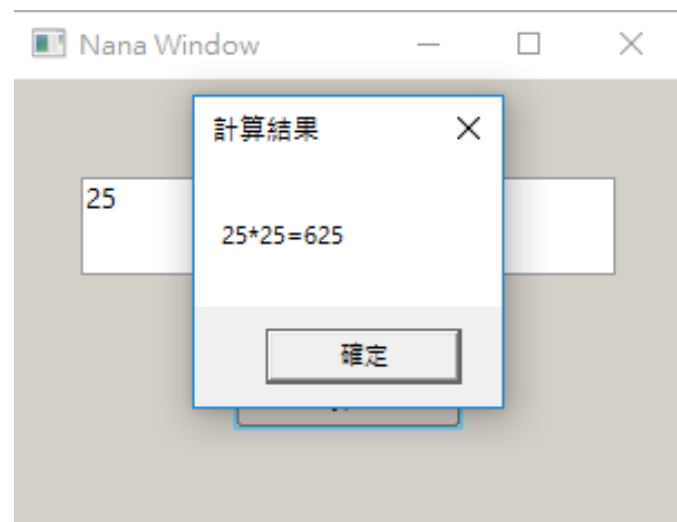
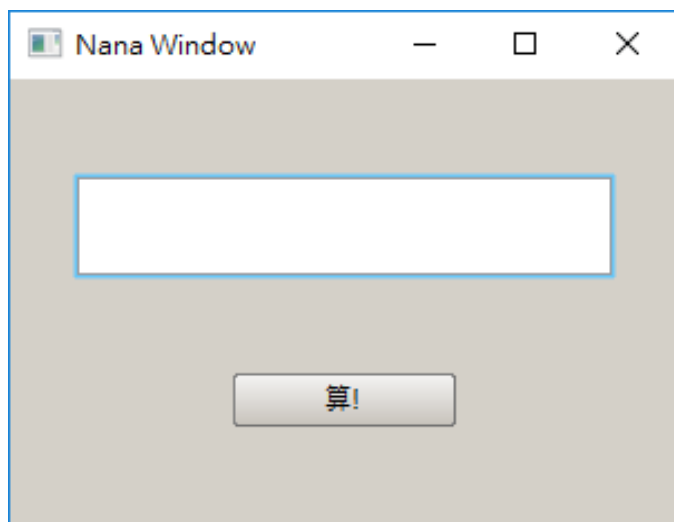
- /
  - src – main program directory
  - **square** – your own library
    - CMakeLists.txt – Use add\_subdirectory to include this file.
  - ext – 3<sup>rd</sup> party libraries (git submodules)
    - NANA
    - FMT

# Note

- UNCHECK
  - MSVC\_USE\_MP
  - MSVC\_USE\_STATIC\_RUNTIME
- if you have problem with `std::experimental::filesystem`
  - Open `nana/build/cmake/select_filesystem.cmake`
  - Uncomment line 46

```
44  else()  
45      # todo    test for std    (for now just force nana or boost if there no std)  
46      #target_link_libraries    (nana PUBLIC stdc++fs)  
47  
48      # todo if not test for boost  
49      # if not add nana filesystem
```

# Screenshot



# Notice

- git clone --recursive  
<https://github.com/tim37021/CMakeHomework>
- Deadline: 2019/06/19 22:00