CMake file example for building a C++ project

CMake is cross-platform free and open-source software for build automation, testing, packaging and installation of software by using a compilerindependent method. CMake is not a build system itself; it generates another system's build files.

Below is a simple example for C++ project:

```
cmake_minimum_required(VERSION 3.10)
project(ExampleProject)
# Add the source files
set(SRCS main.cpp)
# Add the executable
add_executable(ExampleProject ${SRCS})
```

The project name is ExampleProject and the source file for the project is main.cpp. The executable is added using the add_executable command, with the project name and source files as arguments.

Below is an advanced example:

```
cmake_minimum_required(VERSION 3.10)
project(ExampleProject CXX)
# Set the C++ standard to use
set(CMAKE_CXX_STANDARD 17)
set(CMAKE_CXX_STANDARD_REQUIRED ON)
# Set the build type to release by default
if (NOT CMAKE BUILD TYPE)
 set(CMAKE_BUILD_TYPE Release)
endif()
# Add the source files
file(GLOB_RECURSE SRCS "src/*.cpp")
# Add the include directories
include_directories(include)
# Add the executable
add_executable(ExampleProject ${SRCS})
# Link libraries if needed
# target_link_libraries(ExampleProject [library1 library2 ...])
# Enable testing
enable_testing()
# Add tests
# add test(NAME ExampleTest COMMAND ExampleProject [arguments])
# Install the executable
install(TARGETS ExampleProject DESTINATION bin)
```

For above, the project name is ExampleProject and is built as an executable. The C++ standard used is C++17. The build type is set to Release by default, but can be changed by specifying a different type when running CMake. The source files are located in the src directory and are added using the file(GLOB_RECURSE ...) command. The include directories are added using the include_directories command. The executable is added using the add_executable command. If the project requires any libraries, they can be linked using the target_link_libraries command. The project can be installed using the install command. The enable_testing command enables testing and individual tests can be added using the add_test command.