Задания 1

1. Создание CMakeLists.txt

2. Билд проекта

Задание 2

1. Автосборка проекта

```
theblindpew@MacBook-Pro-Vladislav formatter_ex_lib % cat > CMakeLists.txt <<EOF cmake_minimum_required(VERSION 3.10) project(formatter_ex) EOF EOF
```

2. Параметры языка и присваивание пути переменной (для удобства)

```
theblindpew@MacBook-Pro-Vladislav formatter_ex_lib % cat >> CMakeLists.txt <<EOF
set(CMAKE_CXX_STANDARD 14)
set(CMAKE_CXX_STANDARD_REQUIRED ON)
set(CMAKE_CXX_STANDARD_REQUIRED ON)
set(CMAKE_CURRENT_SOURCE_DIR /Home//Heinene/workspace/projects/lab03dz)
EOF
```

3.Пофиксил ошибки, которые возникли при использовании команды сат

4.Сборка библиотеки

```
theblindpew@MacBook-Pro-Vladislav formatter_ex_lib % cmake --build _build
-- Configuring done
-- Generating done
-- Build files have been written to: /Users/theblindpew/Lab03_TIMP/formatter_ex_lib/_build
[ 50%] Building CXX object CMakeFiles/formatter_ex.dir/formatter_ex.cpp.o
[106%] Linking CXX static library libformatter_ex.a
[106%] Built target formatter_ex
theblindpew@MacBook-Pro-Vladislav formatter_ex_lib %
```

5. Проверил наличие исполняемого файла .а

Задание 3

1. Автосборка проекта

```
[theblindpew@MacBook-Pro-Vladislav Lab03_TIMP % cd hello_world_application

[theblindpew@MacBook-Pro-Vladislav hello_world_application % cat > CMakeLists.txt <<EOF

[heredoc> cmake_minimum_required(VERSION 3.10)

[heredoc> project(hello_world)

[heredoc> EOF
```

2. Параметры языка и присваивание пути

```
theblindpew@MacBook-Pro-Vladislav hello_world_application % cat >> CMakeLists.txt <<EOF
heredoc> set(CMAKE_CXX_STANDARD 14)
heredoc> set(CMAKE_CXX_STANDARD REQUIRED ON)
heredoc> set(CMAKE_CXX_STANDARD REQUIRED ON)
heredoc> set(CMAKE_CURRENT_SOURCE_DIR /Users/theblindpew/Lab03_TIMP)
heredoc> EOF
```

3.Итоговый файл

```
make_minimum_required(VERSION 3.10)
project(hello_world)
project(hello_world)
set(GMAKE_CXX_STANDARD 14)
set(GMAKE_CXX_STANDARD_REQUIRED ON)
set(GMAKE_CXX_STANDARD_REQUIRED ON)
set(GMAKE_CURRENT_SOURCE_DIR /Users/theblindpew/Lab03_TIMP)
set(GMAKE_CURRENT_SOURCE_DIR /Users/theblindpew/Lab03_TIMP)
set(GMAKE_CURRENT_SOURCE_DIR /Users/theblindpew/Lab03_TIMP)
sed(_executable(hello_world $(GMAKE_CURRENT_SOURCE_DIR)/formatter_lib $(GMAKE_CURRENT_SOURCE_DIR)/formatter_ex_lib)
find_library(formatter_ex_NAMES_libformatter_a.paThs $(GMAKE_CURRENT_SOURCE_DIR)/formatter_tib)
find_library(formatter_ex_NAMES_libformatter_ex_a pAThs $(GMAKE_CURRENT_SOURCE_DIR)/formatter_ex_lib)
find_library(formatter_ex_lab)
find_library(formatter_ex_lab)
set_GMAKE_CURRENT_SOURCE_DIR)/formatter_lib/_build/libformatter_a $(CMAKE_CURRENT_SOURCE_DIR)/formatter_ex_lib/_build/libformatter_ex_a)
```

4. Билд проекта

```
theblindpew@MacBook-Pro-Vladislav hello_world_application % vi CMakeLists.txt
theblindpew@MacBook-Pro-Vladislav hello_world_application % cmake --build _build
-- Configuring done
-- Generating done
-- Build files have been written to: /Users/theblindpew/Lab03_TIMP/hello_world_application/_build
Consolidate compiler generated dependencies of target hello_world
[ 50%] Linking CXX executable hello_world
[ 180%] Built target hello_world
```

5.Запуск проекта

```
theblindpew@MacBook-Pro-Vladislav hello_world_application % _build/hello_world hello_world hello_world!
```

6.Итоговый файл(solve_app)

7.Сборка

```
theblindpew@MacBook-Pro-Vladislav solver_application % cmake -H. -B_build
-- Configuring done
-- Generating done
-- Generating done
-- Build files have been written to: /Users/theblindpew/Lab@3_TIMP/solver_application/_build
theblindpew@MacBook-Pro-Vladislav solver_application % cmake --build _build
[ 50%] Building CXX object CMakeFiles/solver_app.dir/equation.cpp.o
[100%] Linking CXX executable solver_app
[100%] Built target solver_app
```

8.Запуск программы