**Exercise 1.**

*For this exercise we need to construct the classic ‘Hello World’ code, used as starting point in the first book of Kernighan and Ritchie.*

*The listing:*

#include <iostream>

int main()

{

std::cout << "Hello World\n";

}

*The commands entered to compile and link the program:*

g++ -Wall -c hello.cc

g++ -Wall hello.o –o hello

*A short description of object file and executable:*

The object file is called ‘hello.o’. It is generated by the compiler from the source file and contains external references, and definitions. The file is not readable for humans, I tried it but got a headache after the second line. The executable program is called ‘hello’. It is generated by the linker and contains the final program that gives ‘Hello World’ as output.

*The program output:*

(Command: ./hello >>file\_1.txt)

Hello World

*The size in bytes:*

The source file (hello.cc) = 69

The object file (hello.o) = 1.700

The executable program (stripped) = 8.792

The file iostream = 2.695