

File and streams

Aim

In this laboration you should learn how to write a basic C++ program that can open a text file, read from the text file and count the number of letters for each word. You shall also calculate the average length of all the words in the text file.

Reading instructions

- How to open a file: **ifstream**
- How to read from a file: **>>**

Assignment

You shall write a program that read the content from a file and afterwards output some statistics about the text. It shall count the total number of words and calculate the average length of all the words in the text. The program must print out the shortest and the longest words in the file. If the file is empty then a warning must be printed.

Körexempel 1

There are 4711 words in the file.
The shortest word was "I" with 1 character(s).
The longest word was "halfpennyworths" with 15 character(s).
The average length was 5.00 character(s).