## **Assignment 6 -- String Manipulation**

The aim of the following three tasks is to learn how to extract and to delete certain parts of character strings (with a <u>given</u> basic set of <u>string functions</u>: <u>only use those</u> defined in the lecture on pages 36 and 37, unless otherwise specified).

1) Input is one line (a sentence) of words. The output is to be a list of all the words entered, each on a separate line.

To decide whether a certain character is part of a word, use the standard library function isalpha(c), which returns true if the char-variable c has alphabetical content, which is equivalent to being part of a word.

```
word separation V-0.1
enter a sentence with several words: LookAt this super-dooper t3st sentence!
LookAt this super dooper t st sentence end program
```

2) Your program is to recognise fractions like 28/7 or 1/3. To test your program, output the numerator and the denominator with their respective value.

```
scan fraction V-0.02
enter fraction (e.g. 2/3): 4711/239
numerator = 4711
denominator = 239
end prog
```

3) You already know how to trim the leading and the trailing blanks of a string. Now try to remove all inner blanks, while keeping all the leading and the trailing blanks.

```
string trim inside V-0.03
enter a string, with some words and multiple blanks in between: bla blub blob blue
you entered: "bla blub blob blue "
now, with the inner blanks removed: "blablubblobblue "
end string trim inside
```