**Recitation 1**

**Topics**

* data types
* I/O
* loops.

**Task**

We want to read a file, display it to the screen and report how many "words" there are.

There are several ways to do this. Here's one way:

* Read the file line-by-line, printing each line to the screen.
* Read the file again, word-by-word, keeping a count of the words read and displaying the count when you are done.

If you have time and know how, break the problem into functions. What are good ways to do that? What parameters should you pass to the function? More time? Try counting each distinct "word".

**Issues**

* Development environment
  + Many students like to use Microsoft's Visual Studio. It can be dowloaded free (legally) from www.dreamspark.com.
  + You are welcome to use whatever development environment that you like, however the TA's may not be familiar with your choice, so don't expect help with your choice of tools.
* How to open a file. And how to check that you were successful.
* How to read a line
* How to read a "word". And what is a "word", anyway?
* How to loop and how to know when you finished reading the file.