

# CS1023 Lab March 29, 2011

## Text file processing

This lab has a simple requirement, but you will need to think very carefully about the logic needed to execute it correctly. Your application will read a file and print its contents to a new file, but with all the lower case 'e' characters replaced by upper case 'E' characters.

The following steps are necessary:

1. Read in a filename from the user.
2. You should then open the file for reading. If the file does not exist or you do not have the correct permissions on it, your application should display an error message and then stop.
3. If, however you can successfully open the file, you should then open another file *textChanged.txt* for writing.
4. If you are unable to open this file, your application should display an error message and then stop.
5. If, however you can successfully open the output file, you should process the input file line by line and replace all the lower-case 'e' characters with upper-case 'E' characters.
6. Test your application with the file *recursion.txt* that can be downloaded from Blackboard.
7. Be sure to close all your files.

## Hints

1. You will find `ReadLine` from `simpio.h` useful for reading the text.
2. You will find `IthChar` from `strlib.h` useful for the text processing.
3. You will find `fprintf` from `stdio.h` useful for writing the output file.
4. Save the input file in the same folder as your executable then you will not have to worry about the path.

**To be handed in:**

Source code for your final application should be submitted through Blackboard. Be sure to include your name in the program comments.