

Lab 7.3.8.1 File operations: part 1

Objectives

Familiarize the student with:

- Working with files
- Reading from a file
- Writing to a file

Scenario

Write a program that copies itself and adds line numbers to each line. You can (for now, to simplify your task, of course) assume constant file names. First, open the file in read mode, then open the copy file in write mode. After that, line by line, get the lines from the source file, append the number of the line to the destination file, and append the line content. Remember to close both files. Note: in a real program, it's important to check whether all the needed files exist and that you can create a copy. In our program, you should at least check that both files have been successfully opened. If one of the *fopen* functions fails, then print the message: "Error opening a file." and end the program.

```
#include <stdio.h>

int main()
{
    /* your code */
    return 0;
}
```

Example output

Copy of source file with line numbers.