

---

## Lab 11 - File Input/Output

1. Create a text file containing a list of items a shop sells. An item is represented as a structure which contains:
  - a code
  - a name
  - a unit of measure
  - the amount
  - the price per unitThe items are read from the keyboard. ★
2. Same as the previous problem, but use a binary file. ★★
3. Write a program to concatenate 2 text files. ★
4. Write a program to concatenate 2 binary files. ★
5. Write a program that prints the contents of a binary file to the screen in hexadecimal. Print a new line after every 64 bytes. ★
6. Write a program to find all the occurrences of a word in a text file. The program will print to the screen the line and the column where each occurrence of the word is found. ★★
7. Write a program which compares the contents of two existing text files and prints the lines which are different. ★
8. Starting with the file created at problem 1 or 2, create another one where the items are sorted ascending on their code field. ★★
9. Using the file created at problem 1 or 2, write functions to add, search and delete items from the shop. ★★★
10. Using the files created at problem 1 or 2, write a function to merge 2 data files. If an item is found in both files the quantity of the item in the new file should be the sum of the quantities in the 2 original files. ★★★

## References

- Pb. 1, 7-10 [1]

[1] Iosif Ignat & Marius Joldoș. *CP Laboratory Guide 11: High level file IO*.