RECITATION 13

Q1. Use a text editor to create a text file that contains a few lines of text. Write a program that reads the text file line by line and writes everything to the screen.

Q2. Write a program that copies the text file line by line to a new file.

Q3. Write a program that copies the text file but this time with double spacing. (instead of 1 newline, 2 newlines need to be placed at the end of every line).

Q4. Write a program that writes the lines of a text file to the screen. On the screen, all lines need to be preceded by their line number.

Q5. Write a program that prints the content of 2 different text files merged (one after the other) to the screen.

Q6. Write a program that asks the user to enter the file name, the file extension and some text. The program creates that file and writes the entered text to that file.

```
Enter file name: test
Enter file extension: txt
Enter your text: This is a test.


File has been opened with success!
Text has been written
File closed
```

Q7. Write a program that prints the first 20 lines of a text file to the screen. If the user hits return on the keyboard, the next 20 lines are printed. This is repeated until the end of the file is reached.

Q8. Use a text editor to create 2 different files that both contain a row of integer numbers, ordered from small to large. Write a program that writes the numbers of both files in 1 ordered row to a new file. The file content cannot be saved into arrays to solve this problem. For example;

- numbers1.txt: 1 5 7 9 11 23 77 93 103
- numbers2.txt: 4 9 12 28 124 230
- merged_numbers.txt: 1 4 5 7 9 9 11 12 23 28 77 93 103 124 230

Q9. Write a program that searches patterns in a text file. A certain string (pattern) needs to be searched in the text file. Every line that contains that pattern, must be printed. Print also the line number.

Q10. Write a program that

- asks the user to enter the name and age of a chosen number of people and writes that data to a file. The names do not contain any spaces.
- searches a name entered by the user in the file created and prints the corresponding age to the screen. Make sure a message is printed when the name is not present in the file.