***The answers can be presented on a sheet of paper or sent via e-email vladimir.viies@gmail.com. Sent files can not be compressed.***

**NB! do not use AI**

# 1.(14p)Create a program in C, using pointers, with the given requirements:

***- you must create the input file yourself;***

***- the program must include at least three functions\*.***

1. **User enters the names of the input and output files na1, na2, nt1, nt2.**
2. From file na1 following structure should be read in:

county – char[]

city – char[]

1. **From file na2 read** in:

name – char[]

address – struct:

city – char[]

street – char[]

house – int

1. Sort the records from file **na2** **by the county** (in alphabetical order) and save them to file **nt1** and output them also on the terminal screen.
2. To file **nt2** output all the records from input data that could not be associated and outputted to the first file.

***\* the program must include the following file processing functions :***

***-specify the length of the file;***

***-detection of “faulty record” in file(must match the structure description).***

**2**.(2p)What set of data is a database and on the basis of which are they classified?

(2p) What is the file buffer and which function of C directly processes the files data in it?

(2p) What is file pointer (FILE \* f) and how should it be used in file processing?