PYTHON EXERCISE
DATA PROCESSOR

00 – INPUT AND OUTPUT IN PYTHON

Write a Python program, which reads a file, processes it and stores it to the file system. The following requirements should be fulfilled:

- Accepted file types are: .csv, .txt, .json, .db
- When reading a file the program should check, whether the file has the right content to be transferred into the other file types. Whether a file is valid is up to you. Describe, what and why you checked.
- For each file read a new folder should be created, the input file should be moved into the new folder.
- Create a file *information.txt* which contains some information about the performed steps like the type of the input file, the types of the output files, amount and names of the columns and rows etc.
- Create a sub folder *out* and store the output files in it. For each of the allowed file types an output file should be created, except for the input file.
- The program should be executed via command line with the input file as a parameter. If no input file is given the user should be able to specify it afterwards.

Try to use the modules that were used in the previous lectures. If you have to use other modules describe in short words, why this is necessary.

A good documentation and useful test cases helps the lecturer to understand what you did and why and though helps you to get a better evaluation.

Files to be delivered:

- Source code
- Good documentation
- Test cases
- retquirements.txt*

*will be discussed in lecture