NPRG065: Progamming in Python

Practicals 4

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Assignments

1. Create a program that prints a textual file split by words, i.e., each word on a new line
   - word separators are white characters (spaces, new lines, tabs, ...)
   - the name of the input file will be given as a program argument

ASSIGNMENTS

2. Create a program that counts number of individual words in a given file
   - the name of a file will be given as a program argument

Assignments

3. Create a program that prints a textual file justified to a maximal given width (maximal number of characters on the line)
   - i.e., the text is justified to the left
   - the name of a file and the number of characters will be provided as program arguments
4. Extension
   - the program accepts third optional argument – name of the output file to which the justified text needs to be saved
   - without it, the programs prints out to the std output

ASSIGNMENTS

5. Create the adduser program, which adds a user to a UNIX system
   - users are in the file /etc/passwd – create a copy of the file and make changes to the copy
   - format of the file available in the manual page – `man 5 passwd` (or https://linux.die.net/man/5/passwd)
   - program will be interactive
   - asks the user about his/her user-name and tests whether the user-name exists
   - suggests a UID and tests whether UID can be used
   - offers a home directory (`/home/username`)
   - offers a shell (`/bin/bash`)