

NPRGo65: PROGRAMMING IN PYTHON

PRACTICALS 5



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1. Create a program that prints out a textual file (given as a command-line argument) converted to upper case or lower case
 - the direction of conversion is determined by another argument:
 - `converter.py -U file` - to upper case
 - `converter.py -L file` - to lower case

2. Create a variant of the unix CUT tool

- It splits the input to columns and prints out the chosen columns
- It reads from the std input and prints to the std output
- The command line arguments:
 - -d: column delimiter
 - -f: columns to be printed, comma-separated list of ranges:
 - N: N-th column
 - N-: from the N-th column to the last one
 - -M: from the first column to the M-th one
 - M-N: from the M-th column to the N-th one
 - the first column has index 1 (not 0)
- Examples:
 - `cut.py -d : -f 1,3,5` : prints out the first, third and fifth column, the columns are delimited by ':'
 - `cut.py -d , -f 3-5,2` : prints out the third, fourth, fifth, and second columns, the delimiter is ','

3. Create a simple scheduler (a “TODO” list)

- Data are stored in a file
- Commands are given via the command-line arguments:
 - `todo.py -a priority message`: adds a message with the given integer priority
 - `todo.py -l`: prints out the messages sorted by priority in the descending order
 - `todo.py -r`: prints out the messages sorted by priority in the ascending order
 - `todo.py -d`: interactive command to delete a message (first, it prints out all the messages, then it asks what message to delete and after the user input, the specified message gets deleted)

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