

# Unix/Linux Tutorial for Beginners

## Session III – Create files and display their content

### Mandatory exercises

1. Create a new file using one of the presented command line editors (vi or nano) and save it in the folder `~/myLinuxProject/results/courseDay_01`, which was created in the previous session. The file should contain the following line: 'Hello World'.
2. Which command can be used to create an empty file without using an editor?
  - (a) vi
  - (b) empty
  - (c) touch
  - (d) nano
3. Which command(s) displays the contents of a file on the screen?
  - (a) ls
  - (b) cat
  - (c) touch
  - (d) less
4. Assuming the following command has been executed: `'cat ~/data/poetry/rosesRobertBurns.txt | less'`. What is true about this command?
  - (a) runs `'cat ~/data/poetry/rosesRobertBurns.txt'` and `'less'` separately, showing the output of each after both are finished executing.
  - (b) redirects stdout of `'cat ~/data/poetry/rosesRobertBurns.txt'` to stdin of `'less'`
  - (c) redirects stdout of `'cat ~/data/poetry/rosesRobertBurns.txt'` to the file `'less'`
  - (d) is the equivalent of `'less ~/data/poetry/rosesRobertBurns.txt'`
5. If you want to use the content of the file `~/data/poetry/rosesRobertBurns.txt` as input for the `'less'` command, which of the following commands would work?

- (a) `cat ~/data/poetry/rosesRobertBurns.txt | less`
  - (b) `less < ~/data/poetry/rosesRobertBurns.txt`
  - (c) `less > ~/data/poetry/rosesRobertBurns.txt`
  - (d) `less ~/data/poetry/rosesRobertBurns.txt`
6. Which option of the command `wc` returns the number of lines in a file?
- (a) `wc -a`
  - (b) `wc -c`
  - (c) `wc -l`
7. Which command returns information about the type of a file?
- (a) `man myFile`
  - (b) `file myFile`
  - (c) `find -type myFile`
8. Which command prints the first 10 lines of a file on the screen?
- (a) `print -10`
  - (b) `tail`
  - (c) `return -10`
  - (d) `head`
9. Which command can be used to add the content of the files 'myPets.txt' and 'myWildAnimals.txt' to the file 'all\_my\_animals.txt'?
- (a) `add myWildAnimals.txt,myPets.txt all_my_animals.txt`
  - (b) `cat myWildAnimals.txt myPets.txt > all_my_animals.txt`
  - (c) `tail my*.txt > all_my_animals.txt`
10. Go to the directory `~/data/fasta/` and display the file `wheat_PEP.fa` using the command `less`. Search in the displayed file for the following pattern `SEETVA`. Which key allows you to go from one match to the next one?
- (a) `less wheat_PEP.fa → /SEETVA → press the 'n' key`
  - (b) `less wheat_PEP.fa → SEETVA → press the return key`
  - (c) `less wheat_PEP.fa → /SEETVA → press the space key`

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Exercises are in part derived by material from ©Software Carpentry (<http://software-carpentry.org>, license: CC BY 4.0) that was adapted from me for this course. Another part is from a BILS course given by Martin Dahlö and used here by his kind agreement. Remaining exercises by M. Martis.