

Linux Command Line



Abdullah Zubaer, University of Manitoba. zubaera@myumanitoba.ca



Exercise 1

- Navigate your file system
- List all the files in your home directory
- Navigate to different directories such as /, bin, etc and lib
- Use “pwd” and “ls” every time you change directory
- Find out the users logged into the system



Exercise 2

- Download a nucleotide sequence file from NCBI
(Hint: you can use an accession number – such as MK026450.1)
- Move it to your home directory
- Copy it to the Desktop folder and the Document folder
- Remove all the files



Exercise 3

- Create a folder
- Copy a file from /etc directory
- Create a new file
- View the content of those files
- Remove the folder



Exercise 4

- Download a nucleotide sequence file from NCBI
- Rename it
- Make a copy of that file to your home folder
- Access that file with less, head, tail, cat and nano



Exercise 5

- Create a file and write something on it using nano
- Save the file
- Try “cat” commands with ‘>’ and ‘>>’ to add some text to the file
- Check the file with “less”



Exercise 6

- Download five (5) nucleotide (in FASTA format) sequence files from NCBI
- Combine all the sequences into one file



Exercise 7

- Download Yeast chromosome IV and V in GTF format from UCSC database.
- Copy first 10 lines from each file to new files (name them as file_1 and file_2).
- Combine those files to a new file (name it file_3).
- Compare the those two files (file_1 and file_2) to the combined files (file_3).



Exercise 8

- Create a directory
- Create 5 empty files inside that directory
- Write the output of “ls” into those files
- Combine the contents of all the files in the directory
- Remove the directory

Exercise 9

- Download “influenza.fna.gz” file from the ftp site of NCBI Influenza database
- How many sequences you have in total in that file?
- Make a list of the names (header-line) of those sequences.
- How many “neuraminidase” gene sequences you have?



Exercise 10

- Create a directory in your home folder
- Create 10 text files in that directory
- Download a few (may be 3) html files
- Move the html files to the directory you created
- Create another directory in your home folder
- Move the text files to the newly created directory



Exercise 11

- Write first 5 lines and last 11 lines of the manual page of the command “ls” into a text file