CSCI 211: Unix Lab
Lab 6 Practice

Note:

1. You must rely on UNIX commands only to solve the problems. No manipulation on Windows is allowed (such as scrolling the PuTTY screen).

Pre-step:

Run the command "source /lab6/prac/prep.sh" exactly once.

(You may get help from the commands listed on next page.)

1. Show the first 100 characters of the file 'stars'.
2. Show all the characters except the last 100 ones of the file 'stars'.
3. Show the first 12 lines of the file 'stars'.
4. Show all the lines except the last 10 of the file 'stars'.
5. Show the last 100 characters of the file 'stars'.
6. Show the characters starting at the 100th of the file 'stars'.
7. Show the lines starting at the 10th of the file 'stars'.
8. Show the last 12 lines of the file 'stars'.
9. Show the first 20 characters of each line of the file 'stars'.
10. Show the 1st column of the file 'stars' with the default delimiter.
11. Show the 1st column of the file 'stars' with the delimiter as colon.
12. Show the 2nd column of the file 'stars' with the delimiter as comma.
13. Show the 2nd and 3rd column of the file 'stars' with the delimiter as space.
14. Using the default delimiter (i.e. the tab character), get the 2nd column of the file 'stars'. After that, using colon as the delimiter and get the 1st column of the file 'stars'. Merge these two columns into a new file named 'starwars', separating the column with '*'.
15. Check which words are misspelled in 'stars'.
16. Check how many words are misspelled in 'stars'.
17. Create a file with the expression $\sqrt{128 + 16^6}$. Evaluate the expression. Provide 5 digits after the decimal point for the result.
18. Redo the above calculation without creating a file.
19. Show the available disk space on the server.
20. Show the amount of space used your home directory.
21. Find the path of the 'whatsup' program that you can run anywhere.

You may select from the following commands to finish the practice problems. You may also need commands learned from previous labs, which may not be listed here.

- `bc txt`
- `cut –c1-20 stars`
- `cut –f 1 stars`
- `cut –f 1 –d':' stars`
- `cut –f 2 –d, stars`
- `df`
- `du –s ~`
- `cut –f2-3 –d' ' stars`
- `cut –f 2 stars > col1`
- `cut –f 1 –d':' > col2`
- `head –c 100 stars`
- `head –c -100 stars`
- `tail –c 100 stars`
- `tail –c +100 stars`
- `spell stars`
- `which whatsup`
- `echo "quit" >> txt`
- `echo "scale=5" > txt`
- `echo "scale=5; sqrt (128 + 53 * 16^6) " | bc`
- `echo "sqrt (128 + 53 * 16^6) " >> txt`
- `head –12 stars`
- `head –n -10 stars`
- `paste –d '*' col1 col2 > starwars`
- `spell stars | wc –l`
- `tail -12 stars`
- `tail -n +12 stars`