UNIX

Foundation Exercises

Module 05 - Redirection & Pipes

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**Perform the following tasks (using a single command line for each)**

1. List all the contents of your home directory and save the output in a file called **homeList**.
   1. ls > homeList
2. Copy all files that end in **.dat** from **/student\_files** to your **tradingSystem** directory.
   1. cp \*.dat ~/tradingSystem
3. List the contents of your **tradingSystem** directory and append to the **homeList** file.
   1. mv homeList ~/tradingSystem
   2. cd ~/tradingSystem
   3. cat homeList
   4. ls >> homeList
   5. cat homeList
4. Store the last 20 lines of **/etc/passwd** in a file called **newUsers**.
   1. find /etc -name "passwd" 2>errorFile
   2. cd /etc/
   3. tail -20 passwd > /home/local/FDMGROUP/ovando.carter/newUsers
5. Output the current system date to a file called **now**
   1. date > now
6. List the contents of your home directory and then count the number of lines in this output.

**Step** 1 list the contents of your directory: ls -a > contense

**Step 2** identify the command to count the number of lines: wc -l contense

**Step 3** combine these commands with a pipe: cat contense | wc -l

1. List the contents of your home directory. Store this output in a file called **newHomeList**, and then count the lines of this output
   1. cd
   2. ls -a > newHomeList
   3. cat newHomeList | wc -l
2. Using the **head** and **tail** commands, display only line 3 from the **companies.dat** file in your **tradingSystem** directory
   1. cd ~/tradingSystem
   2. cat companies.dat | wc -l
   3. head -3 companies.dat | tail +3
3. List the contents of your **tradingSystem** directory, ordered by size. Keep the entries for the five biggest files and output them to a file called **bigFiles.txt**.
   1. ls -lS | head -6 | tail -5 > bigFiles.txt
4. Output a list of files that end in **.dat** from the **/student\_files** directory to a file called **datFiles**. Also, display on screen how many files were found.
   1. ls /student\_files/\*.dat | tee datFiles | wc -l
5. Display lines 7-9 of **brokers.dat** in the **tradingSystem** directory.
   1. head -9 ~/tradingSystem/brokers.dat | tail -3
6. Display the second line only of the **accounts** file in the **day2** directory.
   1. head -2 accounts | tail +2
7. Store the total line number of the **accounts** file in a file called **totalLine.txt**
   1. wc -l accounts > totalLine.txt
8. Use the **wc** command to display the size (in bytes) of all files in **/etc**. Redirect any errors to **/dev/null**
   1. wc -c /etc 2> /dev/null

Solutions can be found here:

https://quizlet.com/555936027/linux-exercise-2-redirection-and-piping-study-guide-flash-cards/