

Fall 2005: CS344 – UNIX Operating Systems Fundamentals

Solution Homework – 1

1. *mkdir ~/cs344*

mkdir ~/cs344/spring2005

mkdir ~/cs344/spring2005/hw1

mkdir ~/cs344/spring2005/hw2

mkdir ~/cs344/summer2005

mkdir ~/cs344/summer2005/hw1

mkdir ~/cs344/summer2005/hw2

mkdir ~/cs344/summer2005/hw3

mkdir ~/cs344/fall2005

mkdir ~/cs344/fall2005/test1

mkdir ~/cs344/fall2005/test2

2.

1. Lists all the files from the `/etc` directory; the `-la` option lists the files in long format and it also lists all the files (including those files that begin with a dot). The output is redirected to the file *file1*.
2. Displays the processes that you are currently running (by accessing the variable `USER`). The output is redirected to the file *file2*.
3. Displays *file1* and *file2* but, instead of displaying them to the screen, the output is piped to the utility `wc`. `wc` counts the number of lines (hence the `-l`) in both files and outputs that total in *file3*.
4. Displays *file1* and *file2* but, instead of displaying them to the screen, the output is piped to the utility `sort` where the lines are sorted. The output is then displayed one screen at a time.
5. Makes a copy of *file1* and names it *file5*. Then it displays the contents of *file5* one screen at a time. The copy is performed by displaying the contents of *file1* but redirecting the output to *file5*. The commands are separated by a semicolon.

3.

1. `cal 8 1982`
2. `man grep`
3. `who | wc -l`
4. `pwd`

5. **cp** ~/cs344/summer2005/hw1/file2 ~/cs344/spring2005/hw2/file1.old
6. **mv** file2 users
7. **cp** ~/cs344/summer2005/hw1/* ~/cs344/fall2005/test1
8. **ls -Ra** ~
9. **mkdir** ~/tmp
10. **ls -Ra** ~ > ~/tmp/myfiles
11. **wc -l** ~/tmp/myfiles
12. **rm -r -f** ~/tmp
13. **cat** > months
14. **sort** months > sorted_months
15. **setenv** ME \$USER