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1a.

i) /bin/tcsh >echo $SHELL

ii) bash

iii) >bash

iv) >exit

1b.

i) April 1st, 2018 >ncal –e 2018

ii) >cal –B1 –A4

iii) >ncal –wA3 1 2018

1c.

i) >less /etc/cron.daily/apt

ii) press ‘space’ to show next page, press ‘b’ to show the previous page, and press ‘q’ to exit.

1d.

i) >vi 337A4ans.txt

ii) >wget <http://google.com> –O googleindex.html

1e.

i) /home/cou/cse310/students/yanchen2 >pwd

ii) cou/cse310/students/yanchen2 >cd cou/cse310/students/yanchen2

2a.

i) >cd ~

ii) >mkdir 337 >vi file1.txt

iii) (Assuming I am in home directory)

>ls –l to show 337 file access permissions: drwxr-xr-x

>ls –l file1.txt to show the file access permissions: -rw-r--r--

iv) Subdirectory: The read and execute operations can be done by everyone. Only the user(owner) can write to it.

File: Everyone can read it, but only the user(owner) can write to it. The file is not executable by anyone.

2b.

i) >cd 337

ii) >cp ../file1.txt copy1.txt

iii) >rm ../file1.txt

iv) >mkdir subdir1

2c.

i) >cd ~

ii) >chmod u-r 337

iii) Yes. >cd 337/subdir1

2d.

i) >chmod u+r 337 give permission to list the content of 337 again.

>cp –R 337 Clone creates subdirectory Clone that contains all content of 337

ii) >mv googleindex.html Clone

2e.

i) >rm –r 337/\*

ii) >ls 337

iii) >rmdir 337

3a. cat \*log.1 \*.log displays the contents of all the files that end in .log.1 or .log, and this gets directed into grep “ error” as stdin input, which displays the lines that contain the pattern “ error”, and this get directed as stdin input for the command `tee e1 e2`, which writes to stdout and to the files e1 and e2, creating them if doesn’t exist, then gets directed into wc –l, which counts the number of lines of that either e1 or e2 has, which are lines that contain the pattern “ error”.

So basically, the command counts the number of lines that contain the pattern “ error” in all the files that end in .log.1 or .log, as well as writing the lines that contain the pattern “ error” into files e1 and e2.

3b.

i) >mkdir A4tmp

ii) >man find

>find /var/log/ -cmin 80 2> A4tmp/logerror.txt

3c.

i) 10056 >ls –l /usr/share/man/man1

ii) 279 >ls –l /usr/share/man/man1 | grep “\->” | wc –l

3d.

i) 99171 words >cat /usr/share/dict/words | wc –w

99171 lines >cat /usr/share/dict/words | wc –l

ii) 1 word on each line

iii) >head -1800 /usr/share/dict/words | tail -800 | tee A4tmp/800w.txt