

Ethan Tuning
1/26/17
CSCD240
Lab #2

1.

```
[hscart26:~ ethantuning$ echo cal
cal
[hscart26:~ ethantuning$ echo $(cal)
January 2017 Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
[hscart26:~ ethantuning$ echo $cal

[hscart26:~ ethantuning$ echo "$(cal)"
January 2017
Su Mo Tu We Th Fr Sa
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31
[hscart26:~ ethantuning$ echo 'cal'
cal
[hscart26:~ ethantuning$ echo 'echo \'cal\''
> █
```

2.

```
etuning@cscd-linux01:~$ env
TERM=xterm-256color
SHELL=/bin/bash
XDG_SESSION_COOKIE=65f8860d8b52bdcd2ca29c8e56eae1a1-1485320461.991689-1413143693
SSH_CLIENT=146.187.9.208 58685 22
SSH_TTY=/dev/pts/1
USER=etuning
LS_COLORS=rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33;01:cd=40;33;01:or=40;31;01:su=
37;41:sg=30;43:ca=30;41:tw=30;42:ow=34;42:st=37;44:ex=01;32:*.tar=01;31:*.tgz=01;31:*.arj=01;31:*.taz=01;
31:*.lzh=01;31:*.lzma=01;31:*.tlz=01;31:*.txz=01;31:*.zip=01;31:*.z=01;31:*.Z=01;31:*.dz=01;31:*.gz=01;31
:*.lz=01;31:*.xz=01;31:*.bz2=01;31:*.bz=01;31:*.tbz=01;31:*.tbz2=01;31:*.tz=01;31:*.deb=01;31:*.rpm=01;31
:*.jar=01;31:*.war=01;31:*.ear=01;31:*.sar=01;31:*.rar=01;31:*.ace=01;31:*.zoo=01;31:*.cpio=01;31:*.7z=01
;31:*.rz=01;31:*.jpg=01;35:*.jpeg=01;35:*.gif=01;35:*.bmp=01;35:*.pbm=01;35:*.pgm=01;35:*.ppm=01;35:*.tga
=01;35:*.xbm=01;35:*.xpm=01;35:*.tif=01;35:*.tiff=01;35:*.png=01;35:*.svg=01;35:*.svgz=01;35:*.mng=01;35:
*.pcx=01;35:*.mov=01;35:*.mpg=01;35:*.mpeg=01;35:*.m2v=01;35:*.mkv=01;35:*.webm=01;35:*.ogm=01;35:*.mp4=0
1;35:*.m4v=01;35:*.mp4v=01;35:*.vob=01;35:*.qt=01;35:*.nuv=01;35:*.wmv=01;35:*.asf=01;35:*.rm=01;35:*.rmv
b=01;35:*.flc=01;35:*.avi=01;35:*.fli=01;35:*.flv=01;35:*.gl=01;35:*.dl=01;35:*.xcf=01;35:*.xwd=01;35:*.y
uv=01;35:*.cgm=01;35:*.emf=01;35:*.axv=01;35:*.anx=01;35:*.ogv=01;35:*.ogx=01;35:*.aac=00;36:*.au=00;36:*
*.flac=00;36:*.mid=00;36:*.midi=00;36:*.mka=00;36:*.mp3=00;36:*.mpc=00;36:*.ogg=00;36:*.ra=00;36:*.wav=00;
36:*.axa=00;36:*.oga=00;36:*.spx=00;36:*.xspf=00;36:
MAIL=/var/mail/etuning
PATH=/usr/local/java/bin:/usr/local/java/jre/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:
/bin:/usr/games:/usr/local/games
PWD=/home/EASTERN/etuning
JAVA_HOME=/usr/local/java
LANG=en_US.UTF-8
KRB5CCNAME=FILE:/tmp/krb5cc_900693076_JTBTuW
SHLVL=1
HOME=/home/EASTERN/etuning
LOGNAME=etuning
SSH_CONNECTION=146.187.9.208 58685 146.187.134.22 22
LESSOPEN=| /usr/bin/lesspipe %s
LESSCLOSE=/usr/bin/lesspipe %s %s
_=/usr/bin/env
etuning@cscd-linux01:~$ env $PATH
env: /usr/local/java/bin:/usr/local/java/jre/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:
/bin:/usr/games:/usr/local/games: No such file or directory
etuning@cscd-linux01:~$ █
```

3.

cat	reads file
cat < filename	cat reads its input from filename
cat > filename	cat output to filename
cat >> filename	cat output appended to filename

4. grep bird 'The Rhyme of Ancient Mariner' | wc -l

5.

```
etuning@cscd-linux01:~/netstorage/CSCD240$ grep "[A-Z]e" FruitList
etuning@cscd-linux01:~/netstorage/CSCD240$ grep -i "[A-Z]e" FruitList
apple
Orange
Pinapple
lemon
berry
etuning@cscd-linux01:~/netstorage/CSCD240$ grep "[^A-Z]e" FruitList
apple
Orange
Pinapple
lemon
berry
etuning@cscd-linux01:~/netstorage/CSCD240$ grep -i "^[A-Z]e" FruitList
lemon
berry
etuning@cscd-linux01:~/netstorage/CSCD240$ grep "^le" FruitList
lemon
etuning@cscd-linux01:~/netstorage/CSCD240$ grep "le$" FruitList
apple
Pinapple
etuning@cscd-linux01:~/netstorage/CSCD240$ █
```

6.

find . -name "*.txt"	will search recursively through everything to find the pattern
find ~ -name "*.txt"	will search just in the home directory for the pattern

7. find . -r -name "*.txt" -print

8. find . -type f \(-name "*.c" -o -name "*.txt" \)

9. A process is a job within a current shell. A job is a program in execution.

10.

```
[etuning@cscd-linux01:~/netstorage$ ps
  PID TTY          TIME CMD
 4436 pts/0    00:00:00 ps
30178 pts/0    00:00:00 bash
etuning@cscd-linux01:~/netstorage$ █
```

[etuning@cscd-linux01:~/netstorage\$ ps -aux

USER	PID	%CPU	%MEM	VSZ	RSS	TTY	STAT	START	TIME	COMMAND
root	1	0.0	0.1	40608	4640	?	Ss	Jan23	0:03	/sbin/init
root	2	0.0	0.0	0	0	?	S	Jan23	0:00	[kthreadd]
root	3	0.0	0.0	0	0	?	S	Jan23	0:00	[ksoftirqd]
root	4	0.0	0.0	0	0	?	S	Jan23	0:11	[kworker/0]
root	5	0.0	0.0	0	0	?	S<	Jan23	0:00	[kworker/0]
root	7	0.0	0.0	0	0	?	S	Jan23	0:53	[rcu_sched]
root	8	0.0	0.0	0	0	?	S	Jan23	0:00	[rcu_bh]
root	9	0.0	0.0	0	0	?	S	Jan23	0:00	[migration]
root	10	0.0	0.0	0	0	?	S	Jan23	0:00	[watchdog/]
root	11	0.0	0.0	0	0	?	S	Jan23	0:00	[watchdog/]
root	12	0.0	0.0	0	0	?	S	Jan23	0:00	[migration]
root	13	0.0	0.0	0	0	?	S	Jan23	0:00	[ksoftirqd]
root	16	0.0	0.0	0	0	?	S	Jan23	0:00	[watchdog/]
root	17	0.0	0.0	0	0	?	S	Jan23	0:00	[migration]
root	18	0.0	0.0	0	0	?	S	Jan23	0:01	[ksoftirqd]
root	21	0.0	0.0	0	0	?	S	Jan23	0:00	[watchdog/]
root	22	0.0	0.0	0	0	?	S	Jan23	0:00	[migration]
root	23	0.0	0.0	0	0	?	S	Jan23	0:00	[ksoftirqd]
root	25	0.0	0.0	0	0	?	S<	Jan23	0:00	[kworker/3]
root	26	0.0	0.0	0	0	?	S	Jan23	0:00	[kdevtmpfs]
root	27	0.0	0.0	0	0	?	S<	Jan23	0:00	[netns]
root	28	0.0	0.0	0	0	?	S<	Jan23	0:00	[perf]
root	29	0.0	0.0	0	0	?	S	Jan23	0:00	[khungtask]
root	30	0.0	0.0	0	0	?	S<	Jan23	0:00	[writeback]
root	31	0.0	0.0	0	0	?	SN	Jan23	0:00	[ksmd]
root	32	0.0	0.0	0	0	?	SN	Jan23	0:01	[khugepage]
root	33	0.0	0.0	0	0	?	S<	Jan23	0:00	[crypto]
root	34	0.0	0.0	0	0	?	S<	Jan23	0:00	[kintegrit]
root	35	0.0	0.0	0	0	?	S<	Jan23	0:00	[bioset]
root	36	0.0	0.0	0	0	?	S<	Jan23	0:00	[kblockd]
root	37	0.0	0.0	0	0	?	S<	Jan23	0:00	[ata_sff]
root	38	0.0	0.0	0	0	?	S<	Jan23	0:00	[md]
root	39	0.0	0.0	0	0	?	S<	Jan23	0:00	[devfreq_w]
root	41	0.0	0.0	0	0	?	S	Jan23	0:33	[kworker/3]
root	44	0.0	0.0	0	0	?	S	Jan23	0:00	[kswapd0]
root	45	0.0	0.0	0	0	?	S<	Jan23	0:00	[vmstat]
root	46	0.0	0.0	0	0	?	S	Jan23	0:00	[fsnotify_]
root	47	0.0	0.0	0	0	?	S	Jan23	0:00	[ecryptfs-]
root	63	0.0	0.0	0	0	?	S<	Jan23	0:00	[kthrotld]
root	64	0.0	0.0	0	0	?	S<	Jan23	0:00	[acpi_ther]
root	65	0.0	0.0	0	0	?	S<	Jan23	0:00	[bioset]
root	66	0.0	0.0	0	0	?	S<	Jan23	0:00	[bioset]
root	67	0.0	0.0	0	0	?	S<	Jan23	0:00	[bioset]
root	68	0.0	0.0	0	0	?	S<	Jan23	0:00	[bioset]
root	69	0.0	0.0	0	0	?	S<	Jan23	0:00	[bioset]
root	70	0.0	0.0	0	0	?	S<	Jan23	0:00	[bioset]
root	71	0.0	0.0	0	0	?	S<	Jan23	0:00	[bioset]
root	72	0.0	0.0	0	0	?	S<	Jan23	0:00	[bioset]
root	73	0.0	0.0	0	0	?	S<	Jan23	0:00	[bioset]
root	74	0.0	0.0	0	0	?	S<	Jan23	0:00	[bioset]
root	75	0.0	0.0	0	0	?	S<	Jan23	0:00	[bioset]