

Week Report 3

Completed work for week 3

- Lab 3 Markdown link: <https://github.com/Typing-Kevin/cis106/blob/main/labs/lab3/lab3.md>
- Notes 3 Markdown link: <https://github.com/Typing-Kevin/cis106/blob/main/notes/notes3/notes3.md>

Practice screenshots

Practice 3

The screenshot shows a terminal window with a dark theme. The title bar says "Terminal". The window has standard OS X-style controls (minimize, maximize, close) and a search bar. The main area contains a list of bash commands entered by the user, numbered 378 through 405. The commands include nano .bashrc, source .bashrc, df -h, ping google.com, cp ~/bashrc ~/Documents/bashrc_starship_debug.txt, and echo "Hello class!". At the bottom, there is a status bar with icons for the user (@ student), the current directory (~), a date/time indicator (@ 22:50), and a progress bar.

```
378 nano .bashrc
379 source .bashrc
380 nano .bashrc
381 source .bashrc
382 nano .bashrc
383 source .bashrc
384 nano .bashrc
385 sudo apt install dragonplayer
386 clear
387 apt search video player
388 sudo apt update
389 sudo apt search video player
390 nano .bashrc
391 df -h
392 clear
393 ping google.com
394 la -a ~
395 cat ~/.bashrc
396 cp ~/bashrc ~/Documents/bashrc_starship_debug.txt
397 nano .bashrc
398 cd ..
399 echo "Hello class!"
400 sleep 3
401 watch date
402 history
403 clear
404 hisotry
405 history
```

Practice 4

The screenshot shows a terminal window with the title "Terminal". The window contains the following text:

	student	20	0	10408	5424	3248	R	2.9	0.3
1	root	20	0	24352	10948	8124	S	0.0	0.5
2	root	20	0	0	0	0	S	0.0	0.0
3	root	20	0	0	0	0	S	0.0	0.0
4	root	0	-20	0	0	0	I	0.0	0.0
5	root	0	-20	0	0	0	I	0.0	0.0
6	root	0	-20	0	0	0	I	0.0	0.0
7	root	0	-20	0	0	0	I	0.0	0.0
8	root	0	-20	0	0	0	I	0.0	0.0
11	root	0	-20	0	0	0	I	0.0	0.0
13	root	0	-20	0	0	0	I	0.0	0.0
14	root	20	0	0	0	0	I	0.0	0.0
15	root	20	0	0	0	0	I	0.0	0.0
16	root	20	0	0	0	0	I	0.0	0.0
17	root	20	0	0	0	0	S	0.0	0.0
18	root	20	0	0	0	0	I	0.0	0.0
19	root	20	0	0	0	0	S	0.0	0.0
20	root	20	0	0	0	0	S	0.0	0.0
21	root	rt	0	0	0	0	S	0.0	0.0
22	root	-51	0	0	0	0	S	0.0	0.0
23	root	20	0	0	0	0	S	0.0	0.0
24	root	20	0	0	0	0	S	0.0	0.0
25	root	-51	0	0	0	0	S	0.0	0.0

At the bottom of the terminal window, there are two command history entries:

- student ~ 23:13
- du -hd1 /home
- 3.4G /home/student
- 3.4G /home

Below the terminal window, there is a prompt:

student ~ 23:13
→

Practice 5

The screenshot shows a terminal window titled "Terminal". The window has a dark theme with light-colored text. At the top, there are several icons: a dropdown menu, a plus sign, a refresh symbol, a copy/paste icon, a search bar, a list icon, and close/minimize/maximize buttons.

The main content of the terminal is a table of kernel module statistics:

Module	Size	Count	Description
r_ttm			
usbcore	409600	5	ohci_hcd,ehci_pci,usbhid,ehci_hcd,ohci_pci
libahci	61440	1	ahci
ata_piix	45056	0	
psmouse	217088	0	
libata	462848	4	ata_piix,libahci,ahci,ata_generic
e1000	180224	0	
crc32_pclmul	12288	0	
crc32c_intel	16384	2	
video	81920	0	
wmi	28672	1	video
scsi_mod	327680	4	sd_mod,libata,sg,sr_mod
button	24576	0	
scsi_common	16384	5	scsi_mod,sd_mod,libata,sg,sr_mod
i2c_piix4	28672	0	
usb_common	16384	3	ohci_hcd,usbcore,ehci_hcd
i2c_smbus	16384	1	i2c_piix4
serio_raw	16384	0	
battery	28672	0	

Below the table, there is a status bar with the user "student", the prompt "~", the time "00:22", and a progress bar. The progress bar is mostly orange with some green and blue segments, indicating approximately 75% completion.

Further down, the terminal displays sensor information:

```
→ sensors
BAT0-acpi-0
Adapter: ACPI interface
in0:      10.00 V
power1:   0.00 W
```

Another status bar is visible below this, showing the user "student", the prompt "~", the time "00:22", and a progress bar consisting of a single black square.

Practice 6

```
1/1 ✓ + ⌂ ⌂ Terminal ⌂ 🔎 ⌂ - ⌂ x  
||----w |  
||      ||  
  
⌚ student ➔ ~ ⌂ 00:24  
→ cmatrix  
  
⌚ student ➔ ~ ⌂ 00:24  
→ sl  
bash: sl: command not found  
  
⌚ student ➔ ~ ⌂ 00:24  
→ sl  
bash: sl: command not found  
  
⌚ student ➔ ~ ⌂ 00:24  
→ echo "John Smith" | rev  
htimS nhoJ  
  
⌚ student ➔ ~ ⌂ 00:25  
→ toilet "Bob" --metal  
  
mmmmmm      #  
#   #  mmm  #mmm  
#mmmm" "# "# "# "#  
#   # #   #   #   #  
#mmmm" "#m#" ##m#"  
  
⌚ student ➔ ~ ⌂ 00:25  
→
```

Practice 7

The screenshot shows a terminal window with the title "Terminal". The window has a dark theme with light-colored text. At the top, there are several icons: a dropdown menu (1/1), a plus sign (+), a refresh symbol, a copy/paste icon, a search bar with a magnifying glass, a three-dot menu, and close/minimize/maximize buttons.

The terminal displays the following content:

```
414 inxi
415 lsmod
416 sensors
417 fortune
418 figlet "John Doe"
419 cowsay "Hello world"
420 cmatrix
421 sl
422 echo "John Smith" | rev
423 toilet "Bob" --metal
424 date
425 echo "hello world"
426 uname -a
427 history

@ student ~ ② 00:27
→ echo "Hello"
Hello

@ student ~ ② 00:27
→ !!world
echo "Hello"world
Helloworld

@ student ~ ② 00:27
→ !! world
echo "Hello"world world
Helloworld world

@ student ~ ② 00:27
→ 
```

Practice 8

The terminal window shows the following command history:

- 1/1 ~
- student ~ 01:49
- uname -io
unknown GNU/Linux
- student ~ 01:49
- uname date
uname: extra operand 'date'
Try 'uname --help' for more information.
- student ~ 01:49
- man date
- student ~ 01:49
- man df
- student ~ 01:49
- man free
- student ~ 01:49
- man history
- student ~ 01:49
- free --giga

	total	used	free	shared	buff/cache
available					
Mem:	2	1	0	0	1
Swap:	0	1	0	0	

Practice 9

The screenshot shows a terminal window titled "Terminal". The session starts with the user "student" at the prompt. The user runs the "whatis" command followed by several commands: "ls", "pwd", "apt", "sudo", and an empty command line. Each command is followed by its documentation summary.

```
student ~ ① 01:50
→ whatis ls
ls (1)           - list directory contents

student ~ ① 01:51
→ whatis pwd
pwd (1)          - print name of current/working directory

student ~ ① 01:51
→ whatis apt
apt (8)          - command-line interface

student ~ ① 01:51
→ whatis sudo
sudo (8)         - execute a command as another user

student ~ ① 01:51
→ 
```

Practice 10

The screenshot shows a terminal window with the following content:

```
# To show date in UTC/GMT:  
date -u  
  
# To show date in CET:  
TZ=CET date  
  
# To show the time on the west coast of the US (use tzselect(1) to find TZ):  
TZ='America/Los_Angeles' date  
  
@student ~ ② 02:15  
→ sudo apt install python3-pygments -y  
python3-pygments is already the newest version (2.18.0+dfsg-2).  
Summary:  
Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 0  
  
@student ~ ② 02:15  
→ cheat git | pygmentize  
# To set your identity:  
git config --global user.name <name>  
git config --global user.email <email>  
  
# To set your editor:  
git config --global core.editor <editor>  
  
# To enable color:  
git config --global color.ui true  
  
# To stage all changes for commit:  
git add --all
```