CYBR 1500 Assignment, Week 5

# Part I: Required Readings and Lecture Content

* Watch the videos here for the lecture.

Note: Please make sure to watch these videos before attempting the quiz.

Video Lecture 1, Week 5 Update: <https://youtu.be/WjiQyfj_xRc>

Video Lecture 2, Chapter 11, part 1: <https://youtu.be/yQymBOL8Acc>

Video Lecture 3, Chapter 11, part 2: <https://youtu.be/OzHQ_qzeFnQ>

# Part 2: Chapter 11, Basic Scripting

1. Start a new *bash* shell/terminal session.

2. In your **~/Documents** directory, make sure there are at least a couple of files--doesn’t matter what they are, as long as there are at least a couple of files there (if not, create some files using touch. If you’re on another distribution and have no **~/Documents** directory, create one, and then create a couple of files in it).

3. In your home directory, make a new directory called **scripts\_hw**.

4. Add the **~/scripts\_hw** directory to your **PATH** environment variable using the method you learned in the class.

5. In your **~/script\_hw** directory, create a file called **script1** that will display all the files (**ls** command) with long listing format **(-l**), and all the processes (**ps** command).

6. Change the default permission of your **script1** file so that you will be able to execute it.

7. Execute **script1**.

8. In your **~/script\_hw** directory, create another file call **script2** that will display the date, username, user ID, **HOME** environment variable, **PATH** environment variable.

9. Change the default permission of your **script2** file so that you will be able to execute it.

10. Execute **script2**.

>>>>>Paste your terminal capture below this line >>>>>

**andrew@andrew-VirtualBox**:**/home**$ sudo mkdir scripts\_hw

[sudo] password for andrew:

**andrew@andrew-VirtualBox**:**/home**$ export PATH=$PATH:~/scripts\_hw

**andrew@andrew-VirtualBox**:**/home**$ cd ~/scripts\_hw

bash: cd: /home/andrew/scripts\_hw: No such file or directory

**andrew@andrew-VirtualBox**:**/home**$ ls

**andrew**  **koenigtest**  **scripts\_hw**

**andrew@andrew-VirtualBox**:**/home**$ cd /home/scripts\_hw/

**andrew@andrew-VirtualBox**:**/home/scripts\_hw**$ sudo touch script1.sh

**andrew@andrew-VirtualBox**:**/home/scripts\_hw**$ ls

script1.sh

**andrew@andrew-VirtualBox**:**/home/scripts\_hw**$ nano script1.sh

Use "fg" to return to nano.

[1]+  Stopped                 nano script1.sh

**andrew@andrew-VirtualBox**:**/home/scripts\_hw**$ sudo nano script1.sh

**andrew@andrew-VirtualBox**:**/home/scripts\_hw**$ chmod 760 script1.sh

chmod: changing permissions of 'script1.sh': Operation not permitted

**andrew@andrew-VirtualBox**:**/home/scripts\_hw**$ sudo chmod 760 script1.sh

**andrew@andrew-VirtualBox**:**/home/scripts\_hw**$ ls -l

total 4

-rwxrw---- 1 root root 24 Feb 13 17:55 **script1.sh**

**andrew@andrew-VirtualBox**:**/home/scripts\_hw**$ ./script1.sh

bash: ./script1.sh: Permission denied

**andrew@andrew-VirtualBox**:**/home/scripts\_hw**$ sudo ./script1.sh

total 4

-rwxrw---- 1 root root 24 Feb 13 17:55 script1.sh

    PID TTY          TIME CMD

   2113 pts/0    00:00:00 sudo

   2114 pts/0    00:00:00 sh

   2116 pts/0    00:00:00 ps

**andrew@andrew-VirtualBox**:**/home/scripts\_hw**$ PATH=$PATH:.

**andrew@andrew-VirtualBox**:**/home/scripts\_hw**$ echo $PATH

/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/home/andrew/scripts\_hw:.

**andrew@andrew-VirtualBox**:**/home/scripts\_hw**$ sudo touch script2.sh

**andrew@andrew-VirtualBox**:**/home/scripts\_hw**$ nano script2.sh

Use "fg" to return to nano.

[2]+  Stopped                 nano script2.sh

**andrew@andrew-VirtualBox**:**/home/scripts\_hw**$ sudo chmod 760 script2.sh

**andrew@andrew-VirtualBox**:**/home/scripts\_hw**$ nano script2.sh

Use "fg" to return to nano.

[3]+  Stopped                 nano script2.sh

**andrew@andrew-VirtualBox**:**/home/scripts\_hw**$ sudo nano script2.sh

**andrew@andrew-VirtualBox**:**/home/scripts\_hw**$ sudo chmod 777 script2.sh

**andrew@andrew-VirtualBox**:**/home/scripts\_hw**$ script2.sh

Date: Sun 13 Feb 2022 06:13:55 PM CST

who: andrew   tty7         2022-02-13 17:45 (:0)

SHELL=/bin/bash

SESSION\_MANAGER=local/andrew-VirtualBox:@/tmp/.ICE-unix/763,unix/andrew-VirtualBox:/tmp/.ICE-unix/763

QT\_ACCESSIBILITY=1

COLORTERM=truecolor

XDG\_CONFIG\_DIRS=/etc/xdg/xdg-cinnamon:/etc/xdg

XDG\_SESSION\_PATH=/org/freedesktop/DisplayManager/Session0

GNOME\_DESKTOP\_SESSION\_ID=this-is-deprecated

LANGUAGE=en\_US

SSH\_AUTH\_SOCK=/run/user/1000/keyring/ssh

CINNAMON\_VERSION=5.2.7

DESKTOP\_SESSION=cinnamon

SSH\_AGENT\_PID=853

CINNAMON\_SLOWDOWN\_FACTOR=0.0001

GTK\_MODULES=gail:atk-bridge

XDG\_SEAT=seat0

PWD=/home/scripts\_hw

XDG\_SESSION\_DESKTOP=cinnamon

LOGNAME=andrew

QT\_QPA\_PLATFORMTHEME=qt5ct

XDG\_SESSION\_TYPE=x11

GPG\_AGENT\_INFO=/run/user/1000/gnupg/S.gpg-agent:0:1

XAUTHORITY=/home/andrew/.Xauthority

XDG\_GREETER\_DATA\_DIR=/var/lib/lightdm-data/andrew

GJS\_DEBUG\_TOPICS=JS ERROR;JS LOG

GDM\_LANG=en\_US

HOME=/home/andrew

LANG=en\_US.UTF-8

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:mi=00: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:\*.arc=01;31:\*.arj=01;31:\*.taz=01;31:\*.lha=01;31:\*.lz4=01;31:\*.lzh=01;31:\*.lzma=01;31:\*.tlz=01;31:\*.txz=01;31:\*.tzo=01;31:\*.t7z=01;31:\*.zip=01;31:\*.z=01;31:\*.dz=01;31:\*.gz=01;31:\*.lrz=01;31:\*.lz=01;31:\*.lzo=01;31:\*.xz=01;31:\*.zst=01;31:\*.tzst=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:\*.alz=01;31:\*.ace=01;31:\*.zoo=01;31:\*.cpio=01;31:\*.7z=01;31:\*.rz=01;31:\*.cab=01;31:\*.wim=01;31:\*.swm=01;31:\*.dwm=01;31:\*.esd=01;31:\*.jpg=01;35:\*.jpeg=01;35:\*.mjpg=01;35:\*.mjpeg=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=01;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:\*.rmvb=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:\*.yuv=01;35:\*.cgm=01;35:\*.emf=01;35:\*.ogv=01;35:\*.ogx=01;35:\*.aac=00;36:\*.au=00;36:\*.flac=00;36:\*.m4a=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:\*.oga=00;36:\*.opus=00;36:\*.spx=00;36:\*.xspf=00;36:

XDG\_CURRENT\_DESKTOP=X-Cinnamon

VTE\_VERSION=6003

XDG\_SEAT\_PATH=/org/freedesktop/DisplayManager/Seat0

GNOME\_TERMINAL\_SCREEN=/org/gnome/Terminal/screen/e48b084e\_a69e\_4870\_86fc\_45d5be615472

GJS\_DEBUG\_OUTPUT=stderr

LESSCLOSE=/usr/bin/lesspipe %s %s

XDG\_SESSION\_CLASS=user

TERM=xterm-256color

GTK\_OVERLAY\_SCROLLING=1

LESSOPEN=| /usr/bin/lesspipe %s

USER=andrew

CINNAMON\_SOFTWARE\_RENDERING=1

GNOME\_TERMINAL\_SERVICE=:1.115

DISPLAY=:0

SHLVL=2

XDG\_VTNR=7

XDG\_SESSION\_ID=c1

XDG\_RUNTIME\_DIR=/run/user/1000

GTK3\_MODULES=xapp-gtk3-module

XDG\_DATA\_DIRS=/usr/share/cinnamon:/usr/share/gnome:/home/andrew/.local/share/flatpak/exports/share:/var/lib/flatpak/exports/share:/usr/local/share:/usr/share

PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/home/andrew/scripts\_hw:.

GDMSESSION=cinnamon

DBUS\_SESSION\_BUS\_ADDRESS=unix:path=/run/user/1000/bus

OLDPWD=/home

\_=/usr/bin/env

**andrew@andrew-VirtualBox**:**/home/scripts\_hw**$

<<<<< Paste your terminal capture above this line <<<<<

# Part 3: Submit your assignment to Blackboard

***NB. Don’t forget to take the weekly quiz!***

# Rubric: 30 points

This assignment is worth 30 points total. Each numbered instruction is worth 3 points. Must capture the actual terminal interactions, not just commands, to receive full credit for a question.