

Week Report 4

Practice 1

```

1/1  +  [share icon] [refresh icon]  Tilix: jpbrownjames@cis106: /

1:jpbrownjames@cis106: /  [close icon]
jpbrownjames@cis106:~$ pwd
/home/jpbrownjames
jpbrownjames@cis106:~$ cd Downloads/
jpbrownjames@cis106:~/Downloads$ pwd
/home/jpbrownjames/Downloads
jpbrownjames@cis106:~/Downloads$ cd ../
jpbrownjames@cis106:~$ pwd
/home/jpbrownjames
jpbrownjames@cis106:~$ cd ../../
jpbrownjames@cis106:/ $ pwd
/
jpbrownjames@cis106:/ $ cd
jpbrownjames@cis106:~$ cd -
/
jpbrownjames@cis106:/ $ pwd
/
jpbrownjames@cis106:/ $

```

Practice 2

```

1/1  +  [share icon] [refresh icon]  Tilix: jpbrownjames@cis106: ~/practicels

1:jpbrownjames@cis106:~/practicels  [close icon]  2:jpbrownjames@cis106:~  [close icon]
-rw-rw-r-- 1 jpbrownjames jpbrownjames 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 jpbrownjames jpbrownjames 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 jpbrownjames jpbrownjames 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 jpbrownjames jpbrownjames 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 jpbrownjames jpbrownjames 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 jpbrownjames jpbrownjames 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 jpbrownjames jpbrownjames 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 jpbrownjames jpbrownjames 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 jpbrownjames jpbrownjames 44K Jan 31 2020 tux-penguin.gif
jpbrownjames@cis106:~/practicels$ ls -lht
total 2.9M
-rw-rw-r-- 1 jpbrownjames jpbrownjames 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 jpbrownjames jpbrownjames 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 jpbrownjames jpbrownjames 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 jpbrownjames jpbrownjames 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 jpbrownjames jpbrownjames 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 jpbrownjames jpbrownjames 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 jpbrownjames jpbrownjames 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 jpbrownjames jpbrownjames 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 jpbrownjames jpbrownjames 44K Jan 31 2020 tux-penguin.gif
jpbrownjames@cis106:~/practicels$ ls -lhGcs
total 2.9M
4.0K -rw-rw-r-- 1 1.1K Feb 27 2022 book.txt
24K -rw-rw-r-- 1 24K Feb 27 2022 countries.xml
160K -rw-rw-r-- 1 160K Feb 27 2022 history-debian.pdf
112K -rw-rw-r-- 1 109K Feb 22 2022 homework.docx
1.5M -rw-rw-r-- 1 1.5M Feb 27 2022 movie.mp4
280K -rw-rw-r-- 1 278K Feb 27 2022 people.csv
748K -rw-rw-r-- 1 747K Feb 27 2022 song.mp3
24K -rw-rw-r-- 1 21K Feb 27 2022 tux-nobg.png
44K -rw-rw-r-- 1 44K Jan 31 2020 tux-penguin.gif
jpbrownjames@cis106:~/practicels$ ls -mr
tux-penguin.gif, tux-nobg.png, song.mp3,
people.csv, movie.mp4, homework.docx,
history-debian.pdf, countries.xml, book.txt
jpbrownjames@cis106:~/practicels$ ls -lX
people.csv
homework.docx
tux-penguin.gif
song.mp3
movie.mp4
history-debian.pdf
tux-nobg.png
book.txt
countries.xml
jpbrownjames@cis106:~/practicels$

```

```

-X      sort alphabetically by
        entry extension

-Z, --context
        print any security con-
        text of each file

-l      list one file per line.
        Avoid '\n' with -q or
        -b

--help  display this help and
        exit

--version
        output version informa-
        tion and exit

The SIZE argument is an inte-
ger and optional unit (exam-
ple: 10K is 10*1024). Units
are K,M,G,T,P,E,Z,Y (powers of
1024) or KB,MB,... (powers of
1000). Binary prefixes can be
used, too: KiB=K, MiB=M, and
so on.

The TIME_STYLE argument can be
full-iso, long-iso, iso, lo-
cale, or +FORMAT. FORMAT is
interpreted like in date(1).
If FORMAT is FORMAT1<new-
line>FORMAT2, then FORMAT1 ap-
plies to non-recent files and
FORMAT2 to recent files.
TIME_STYLE prefixed with
'posix-' takes effect only
outside the POSIX locale.
Also the TIME_STYLE environ-
ment variable sets the default
style to use.

Using color to distinguish
file types is disabled both by
Manual page ls(1) line 298 (press h for help or q to quit)

```

Challenge Practice

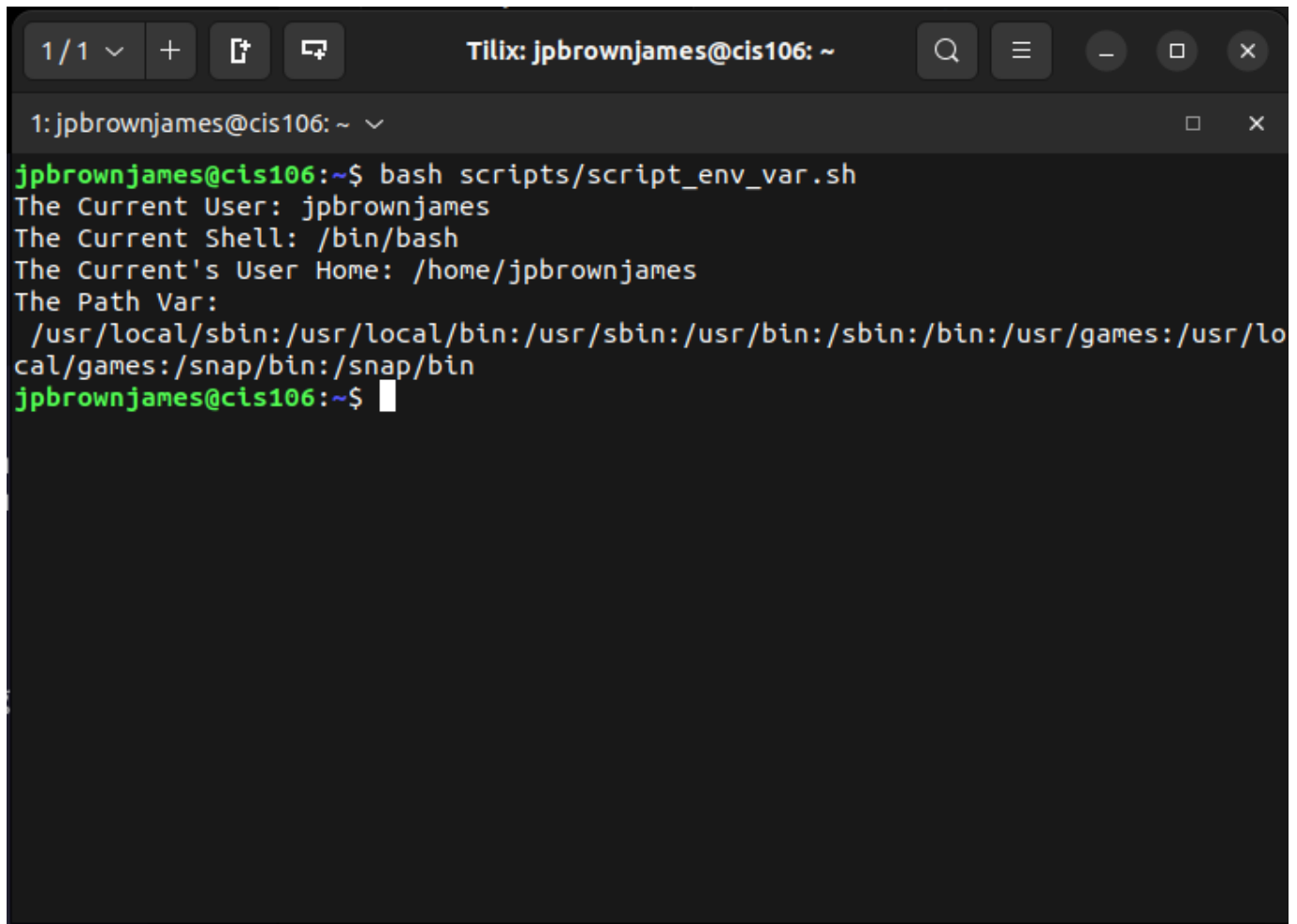
```
1: jpbrownjames@c1s106: ~  
jpbrownjames@c1s106:~$ pwd  
/home/jpbrownjames  
jpbrownjames@c1s106:~$ cd  
jpbrownjames@c1s106:~$ cd /  
jpbrownjames@c1s106:/$ cd usr/share/th  
hemes/  
jpbrownjames@c1s106:/$ cd usr/share/themes/  
jpbrownjames@c1s106:/$ cd /usr/share/themes/$ cd ../../..  
jpbrownjames@c1s106:~$ ls -A -  
.bash_history      practicels.tar.xz  
.bash_logout      .profile  
.bashrc           Public  
.bastetrc         scripts  
.cache            snap  
c1s106            .ssh  
.config           .sudo_as_admin_successful  
Desktop           Templates  
Documents         .thunderbird  
.dotnet           .vboxclient-clippboard-tty2-control.pid  
Downloads         .vboxclient-clippboard-tty2-service.pid  
'extra credit'    .vboxclient-draganddrop-tty2-control.pid  
.fontconfig       .vboxclient-draganddrop-tty2-service.pid  
.gitconfig        .vboxclient-hostversion-tty2-control.pid  
gnupg            .vboxclient-seamless-tty2-control.pid  
.lessshst         .vboxclient-seamless-tty2-service.pid  
.local            .vboxclient-vmsvga-session-tty2-control.pid  
.mozilla          .vboxclient-vmsvga-session-tty2-service.pid  
Music            Videos  
Pictures         .vscode  
.pkt             wildcardpractice  
practicels  
jpbrownjames@c1s106:~$ cd; ls -tx c1s106  
cheatSheets finalProject labs notes weekReports  
jpbrownjames@c1s106:~$ ls -Rr ~/c1s106/  
/home/jpbrownjames/c1s106/:  
weekReports notes labs finalProject cheatSheets  
  
/home/jpbrownjames/c1s106/weekReports:  
wr4 wr3 wr2 wr1  
  
/home/jpbrownjames/c1s106/weekReports/wr4:  
wr4.md practice2.png practice1.png  
  
/home/jpbrownjames/c1s106/weekReports/wr3:  
wr3.pdf      practice-7-part1-Bash.png  practice-3-ms.png  
wr3.md       practice-6-part3-Bash.png  practice-3-Bash.png
```

```
2: jpbrownjames@c1s106: ~  
-D, --dired generate output designed for Emacs' dired mode  
  
-f do not sort, enable -au, disable -ls --color  
  
-F, --classify append indicator (one of */=>@|) to entries  
  
--file-type likewise, except do not append '*'  
  
--format=WORD across -x, commas -M, horizontal -x, long -l, single-column -l, verbose -l, vertical -C  
  
--full-time like -l --time-style=full-iso  
  
-g like -l, but do not list owner  
  
--group-directories-first group directories before files;  
  
can be augmented with a --sort option, but any use of --sort=none (-U) disables grouping  
  
-G, --no-group in a long listing, don't print group names  
  
-h, --human-readable with -l and -s, print  
Manual page ls(1) line 71 (press h for help or q to quit)
```

```
1: jpbrownjames@c1s106: ~  
/home/jpbrownjames/c1s106/finalProject:  
  
/home/jpbrownjames/c1s106/cheatSheets:  
'The LS command Cheat Sheet.png'  
'Markdown Cheat sheet For CIS 106 Linux Fundamentals.png'  
'MANAGING FILES AND DIRECTORIES CHEAT SHEET.png'  
'Absolute Path Vs Relative Path Cheat Sheet.png'  
jpbrownjames@c1s106:~$ ls -lh -  
total 2.2M  
drwxrwxr-x 8 jpbrownjames jpbrownjames 4.0K Feb 26 20:50 c1s106  
drwxr-xr-x 2 jpbrownjames jpbrownjames 4.0K Feb 9 11:42 Desktop  
drwxr-xr-x 3 jpbrownjames jpbrownjames 4.0K Mar 6 18:43 Documents  
drwxr-xr-x 4 jpbrownjames jpbrownjames 4.0K Mar 6 18:37 Downloads  
drwxrwxr-x 5 jpbrownjames jpbrownjames 4.0K Mar 13 18:39 'extra credit'  
drwxr-xr-x 2 jpbrownjames jpbrownjames 4.0K Feb 9 11:42 Music  
drwxr-xr-x 3 jpbrownjames jpbrownjames 4.0K Mar 6 18:37 Pictures  
drwxrwxr-x 2 jpbrownjames jpbrownjames 4.0K Feb 27 20:22 practicels  
-rw-rw-r-- 1 jpbrownjames jpbrownjames 2.2M Mar 14 13:02 practicels.tar.xz  
drwxr-xr-x 2 jpbrownjames jpbrownjames 4.0K Feb 9 11:42 Public  
drwxrwxr-x 2 jpbrownjames jpbrownjames 4.0K Feb 28 18:48 scripts  
drwx----- 7 jpbrownjames jpbrownjames 4.0K Feb 26 22:41 snap  
drwxr-xr-x 2 jpbrownjames jpbrownjames 4.0K Feb 9 11:42 Templates  
drwxr-xr-x 2 jpbrownjames jpbrownjames 4.0K Feb 9 11:42 Videos  
drwxrwxr-x 2 jpbrownjames jpbrownjames 4.0K Mar 13 18:32 wildcardpractice  
jpbrownjames@c1s106:~$ ls -lgc -full-time -  
ls: invalid option -- '-'  
Try 'ls --help' for more information.  
jpbrownjames@c1s106:~$ ls -lgc --full-time -  
total 2236  
drwxrwxr-x 8 4096 2024-02-26 20:50:06.476072978 -0500 c1s106  
drwxr-xr-x 2 4096 2024-02-09 11:42:49.620001198 -0500 Desktop  
drwxr-xr-x 3 4096 2024-03-06 18:43:24.799597274 -0500 Documents  
drwxr-xr-x 4 4096 2024-03-06 18:37:26.715915575 -0500 Downloads  
drwxrwxr-x 5 4096 2024-03-13 18:39:25.521807023 -0400 'extra credit'  
drwxr-xr-x 2 4096 2024-02-09 11:42:49.620001198 -0500 Music  
drwxr-xr-x 3 4096 2024-03-06 18:37:26.715915575 -0500 Pictures  
drwxrwxr-x 2 4096 2022-02-27 13:46:18.000000000 -0500 practicels  
-rw-rw-r-- 1 2229212 2024-03-14 13:02:07.000000000 -0400 practicels.tar.xz  
drwxr-xr-x 2 4096 2024-02-09 11:42:49.620001198 -0500 Public  
drwxrwxr-x 2 4096 2024-02-28 18:48:22.803602036 -0500 scripts  
drwx----- 7 4096 2024-02-26 22:41:37.902344623 -0500 snap  
drwxr-xr-x 2 4096 2024-02-09 11:42:49.620001198 -0500 Templates  
drwxr-xr-x 2 4096 2024-02-09 11:42:49.620001198 -0500 Videos  
drwxrwxr-x 2 4096 2024-03-13 18:32:15.607039501 -0400 wildcardpractice  
jpbrownjames@c1s106:~$
```

```
2: jpbrownjames@c1s106: ~  
-D, --dired generate output designed for Emacs' dired mode  
  
-f do not sort, enable -au, disable -ls --color  
  
-F, --classify append indicator (one of */=>@|) to entries  
  
--file-type likewise, except do not append '*'  
  
--format=WORD across -x, commas -M, horizontal -x, long -l, single-column -l, verbose -l, vertical -C  
  
--full-time like -l --time-style=full-iso  
  
-g like -l, but do not list owner  
  
--group-directories-first group directories before files;  
  
can be augmented with a --sort option, but any use of --sort=none (-U) disables grouping  
  
-G, --no-group in a long listing, don't print group names  
  
-h, --human-readable with -l and -s, print  
Manual page ls(1) line 71 (press h for help or q to quit)
```

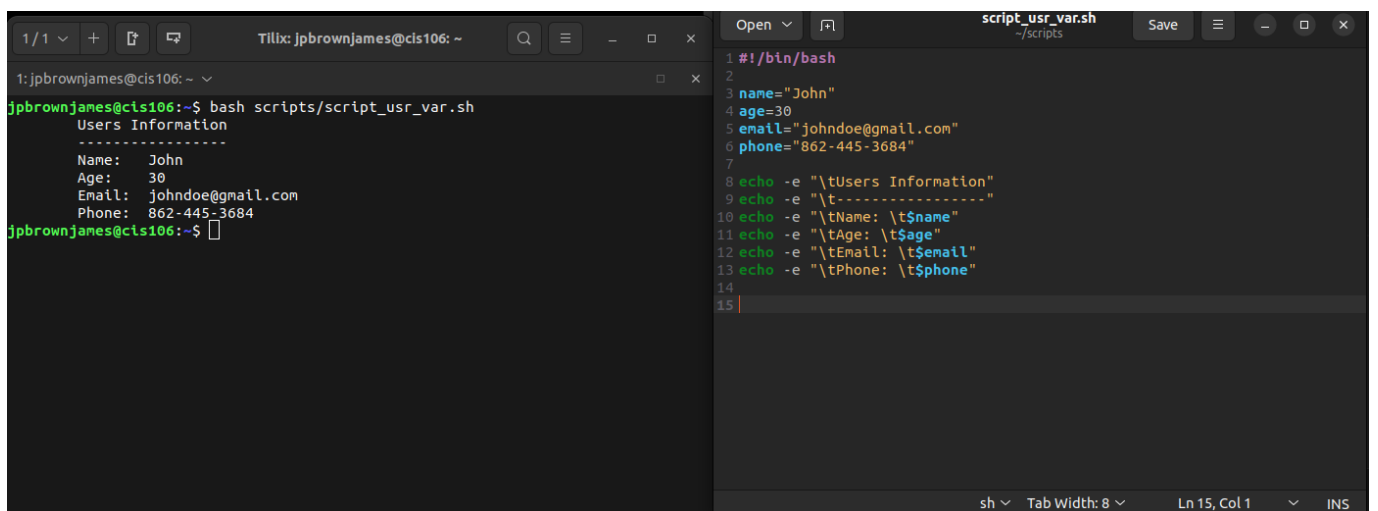
Practice 3



A terminal window titled 'Tilix: jpbrownjames@cis106: ~'. The prompt is '1: jpbrownjames@cis106: ~'. The user has executed the command 'bash scripts/script_env_var.sh'. The script outputs the following information:

```
jpbrownjames@cis106:~$ bash scripts/script_env_var.sh
The Current User: jpbrownjames
The Current Shell: /bin/bash
The Current's User Home: /home/jpbrownjames
The Path Var:
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin
jpbrownjames@cis106:~$
```

Practice 4



The image shows a terminal window and a script editor side-by-side. The terminal window, titled 'Tilix: jpbrownjames@cis106: ~', shows the execution of 'bash scripts/script_usr_var.sh'. The script outputs 'Users Information' followed by a table of user details:

```
Users Information
-----
Name:   John
Age:    30
Email:  johndoe@gmail.com
Phone:  862-445-3684
```

The script editor, titled 'script_usr_var.sh ~/scripts', shows the following code:

```
1 #!/bin/bash
2
3 name="John"
4 age=30
5 email="johndoe@gmail.com"
6 phone="862-445-3684"
7
8 echo -e "\tUsers Information"
9 echo -e "\t-----"
10 echo -e "\tName: \t$name"
11 echo -e "\tAge: \t$age"
12 echo -e "\tEmail: \t$email"
13 echo -e "\tPhone: \t$phone"
14
15
```