

Week Report 4

Practice 1

```
1: richard@cis106: /  ∨  
richard@cis106:~$ pwd  
/home/richard  
richard@cis106:~$ cd Downloads/  
richard@cis106:~/Downloads$ pwd  
/home/richard/Downloads  
richard@cis106:~/Downloads$ cd ..  
richard@cis106:~$ pwd  
/home/richard  
richard@cis106:~$ cd ../../  
richard@cis106:/$ pwd  
/  
richard@cis106:/$ cd  
richard@cis106:~$ cd -  
/  
richard@cis106:/$ pwd  
/  
richard@cis106:/$ □
```

Practice 2

```
1/1  +  [ ] [ ]  Tmux: richard@cis106: ~/practicels

1: richard@cis106: ~/practicels  ▾

richard@cis106:~/practicels$ ls
book.txt  countries.xml  history-debian.pdf  homework.docx  movie.mp4  people.csv  song.mp3  tux-nobg.png  tux-penguin.gif
richard@cis106:~/practicels$ ls -a
.  ..  book.txt  countries.xml  history-debian.pdf  homework.docx  movie.mp4  people.csv  song.mp3  tux-nobg.png  tux-penguin.gif
richard@cis106:~/practicels$ ls -l
total 2932
-rw-rw-r-- 1 richard richard 1043 Feb 27 2022 book.txt
-rw-rw-r-- 1 richard richard 23972 Feb 27 2022 countries.xml
-rw-rw-r-- 1 richard richard 163057 Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 richard richard 111303 Feb 22 2022 homework.docx
-rw-rw-r-- 1 richard richard 1570024 Feb 27 2022 movie.mp4
-rw-rw-r-- 1 richard richard 284042 Feb 27 2022 people.csv
-rw-rw-r-- 1 richard richard 764176 Feb 27 2022 song.mp3
-rw-rw-r-- 1 richard richard 21314 Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 richard richard 44299 Jan 31 2020 tux-penguin.gif
richard@cis106:~/practicels$ ls -lh
total 2.9M
-rw-rw-r-- 1 richard richard 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 richard richard 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 richard richard 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 richard richard 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 richard richard 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 richard richard 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 richard richard 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 richard richard 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 richard richard 44K Jan 31 2020 tux-penguin.gif
richard@cis106:~/practicels$ ls -lht
total 2.9M
-rw-rw-r-- 1 richard richard 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 richard richard 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 richard richard 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 richard richard 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 richard richard 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 richard richard 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 richard richard 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 richard richard 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 richard richard 44K Jan 31 2020 tux-penguin.gif
richard@cis106:~/practicels$ ls -lhGS
total 2.9M
-rw-rw-r-- 1 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 44K Jan 31 2020 tux-penguin.gif
-rw-rw-r-- 1 24K Feb 27 2022 countries.xml
```

Challenge Practice

```
1/1  +  [ ] [ ]  Tmux: richard@cis106: ~

1: richard@cis106: ~  ▾

richard@cis106:~$ pwd
/home/richard
richard@cis106:~$ cd
richard@cis106:~$ cd /
richard@cis106:/$ cd usr/share/themes
richard@cis106:~/usr/share/themes$ cd ../../
richard@cis106:/$ ls -A ~
.  .bash_history  Desktop  Downloads  .lesshst  practicels  script.sh  .vboxclient-clipboard-tty2-control.pid  .vboxclient-seamless-tty2-control.pid  .vscode
.bash_logout  .fontconfig  .local  practicels.tar.xz  snap  .vboxclient-clipboard-tty2-service.pid  .vboxclient-seamless-tty2-service.pid  website.js
.bashrc  Documents  games  Music  .profile  .ssh  .vboxclient-draganddrop-tty2-control.pid  .vboxclient-vmsvga-session-tty2-control.pid
.cache  .dotnet  .gitconfig  Pictures  Public  .sudo_as_admin_successful  .vboxclient-draganddrop-tty2-service.pid  .vboxclient-vmsvga-session-tty2-service.pid
cis106  downloads  .gnupg  .pkg  scripts  Templates  .vboxclient-hostversion-tty2-control.pid  Videos
richard@cis106:/$ cd; ls -lX cis106/
cheatSheets  Extra  finalProject  labs  notes  weekReports
richard@cis106:~$ ls -lR ~/cis106/
/home/richard/cis106/:
weekReports  notes  labs  finalProject  Extra  cheatSheets

/home/richard/cis106/weekReports:
wr4  wr3  wr2  wr1.pdf  wr1.md  wr1  GitHub.png

/home/richard/cis106/weekReports/wr4:
wr4.md  practice2.png  practice1.png

/home/richard/cis106/weekReports/wr3:
wr3.pdf  wr3.md  Slack.png  practice7Bash.png  practice6Bash.png  practice5Bash.png  practice4Bash.png  practice3Manage.png  practice3Bash.png  practice2Bash.png  practice1Manage.png

/home/richard/cis106/weekReports/wr2:
wr2.pdf  wr2.md

/home/richard/cis106/weekReports/wr1:
wr1.pdf  wr1.md  Slack.png  GitHub.png

/home/richard/cis106/notes:
notes1

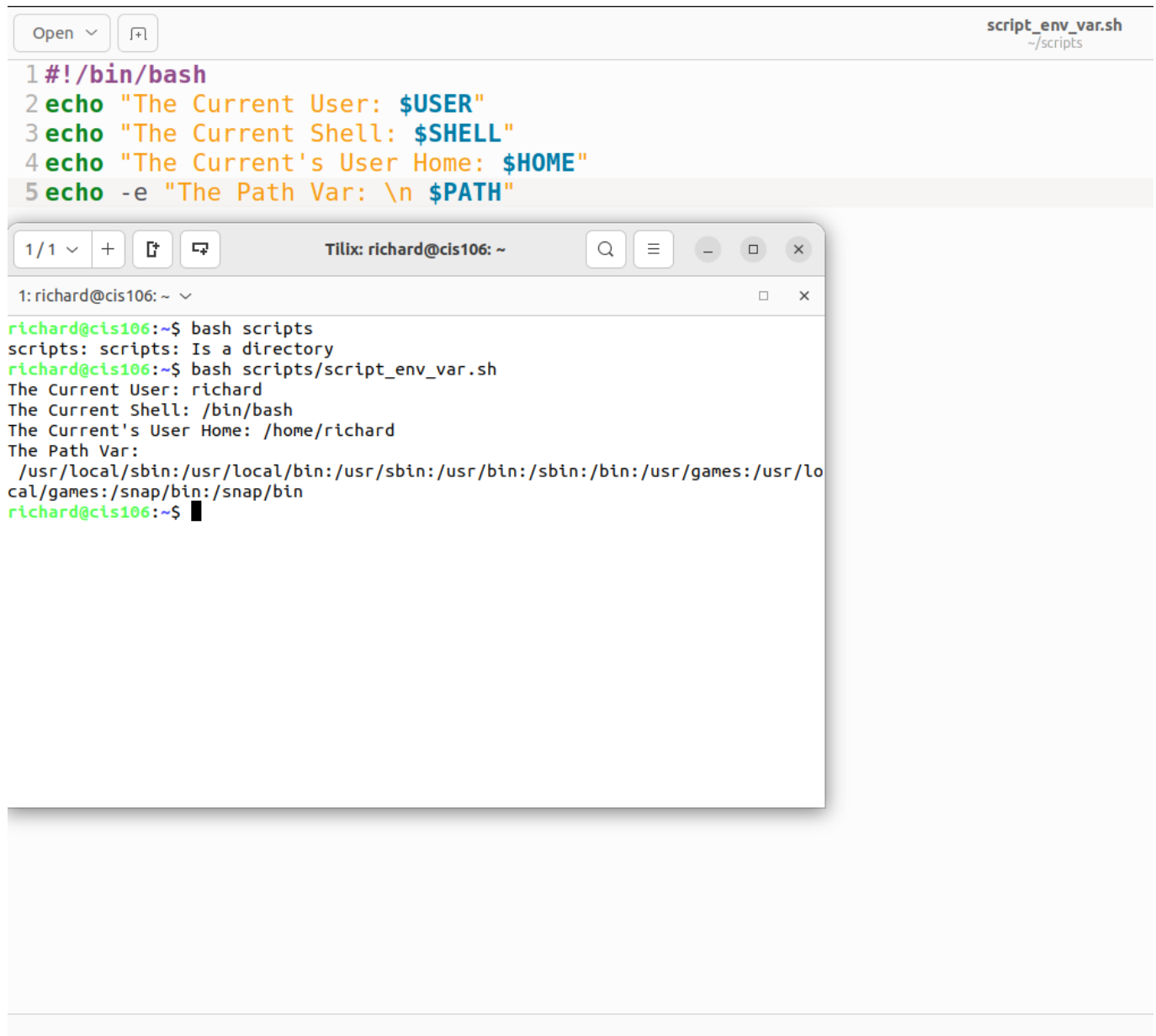
/home/richard/cis106/notes/notes1:
notes1.pdf  notes1.md

/home/richard/cis106/labs:
ubuntu.txt  ubuntu.pdf  ubuntu.md  UbuntuLogo.svg  UbuntuDesktop.png  Slack.png  resume.pdf  resume.md  lab3  lab2  lab1  johndoe.jpeg  johndoeinfo.txt

/home/richard/cis106/labs/lab3:
q4.png  q3.png  q2.png  q1.1.png  lab3-script1.sh  lab3.pdf  lab3.md  challenge_lab3.sh

/home/richard/cis106/labs/lab2:
```

Practice 3

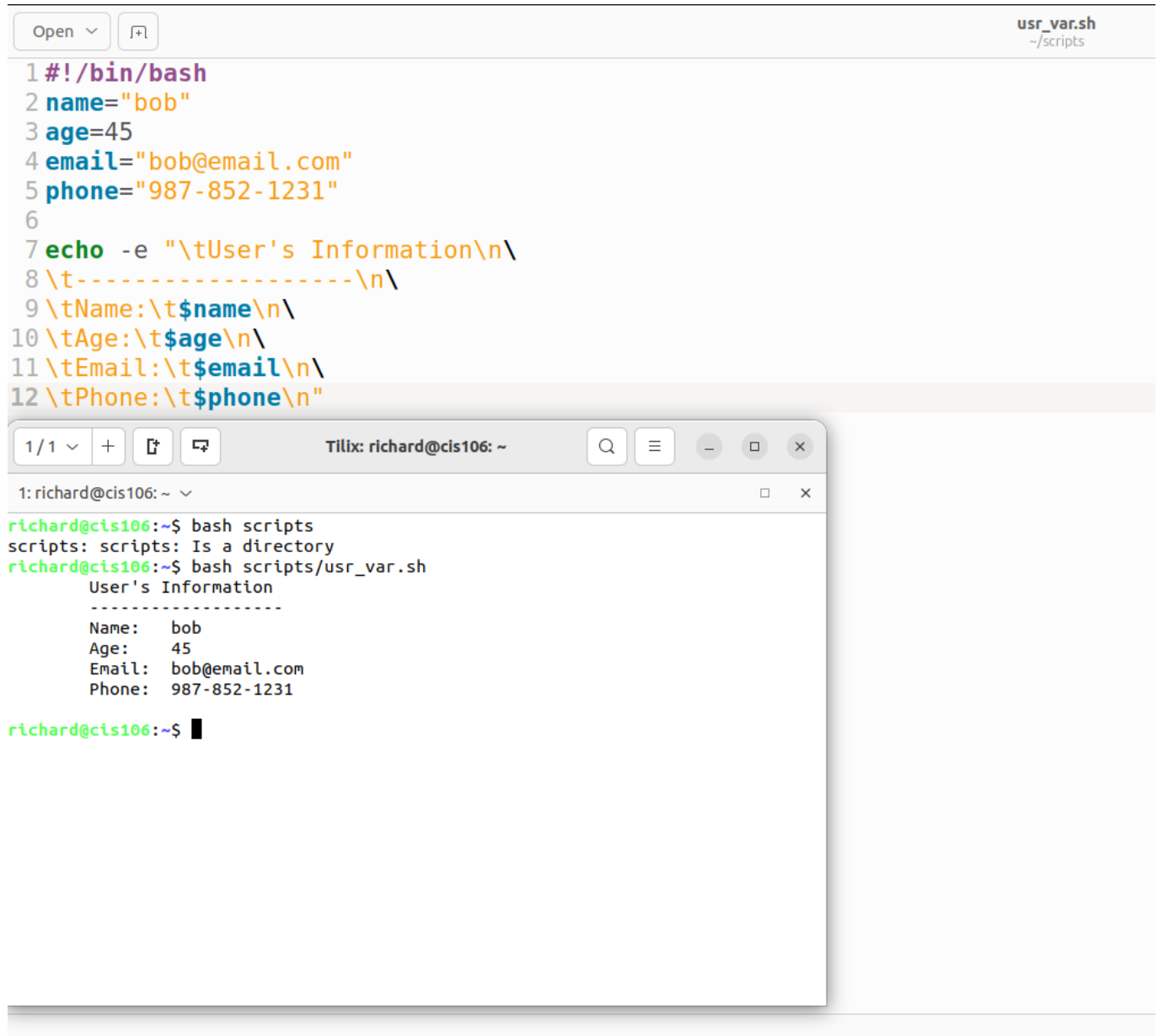


The image shows a terminal window with a light gray background. At the top, there is a header bar with a file icon, a dropdown menu labeled 'Open', and a file name 'script_env_var.sh' with a path '~ / scripts'. Below the header, the script content is displayed in a monospaced font with syntax highlighting: line 1 is '#!/bin/bash', line 2 is 'echo "The Current User: \$USER"', line 3 is 'echo "The Current Shell: \$SHELL"', line 4 is 'echo "The Current's User Home: \$HOME"', and line 5 is 'echo -e "The Path Var: \n \$PATH"'. A terminal window is overlaid on the script content. The terminal window has a title bar 'Tilix: richard@cis106: ~' and standard window controls. The terminal shows the user 'richard@cis106' running 'bash scripts', which results in an error 'scripts: scripts: Is a directory'. Then, the user runs 'bash scripts/script_env_var.sh', which executes the script and displays the current user, shell, home directory, and path. The path is displayed on two lines due to the '\n' escape sequence in the script. The terminal window has a scrollbar on the right side.

```
1 #!/bin/bash
2 echo "The Current User: $USER"
3 echo "The Current Shell: $SHELL"
4 echo "The Current's User Home: $HOME"
5 echo -e "The Path Var: \n $PATH"
```

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

Practice 4



```
usr_var.sh
~/scripts

1 #!/bin/bash
2 name="bob"
3 age=45
4 email="bob@email.com"
5 phone="987-852-1231"
6
7 echo -e "\tUser's Information\n\
8 \t-----\n\
9 \tName:\t$name\n\
10 \tAge:\t$age\n\
11 \tEmail:\t$email\n\
12 \tPhone:\t$phone\n"

1/1 + [?] [?] Tilix: richard@cis106: ~ [Q] [≡] [–] [□] [×]

1: richard@cis106: ~ ▾

richard@cis106:~$ bash scripts
scripts: scripts: Is a directory
richard@cis106:~$ bash scripts/usr_var.sh
    User's Information
    -----
    Name:  bob
    Age:   45
    Email: bob@email.com
    Phone: 987-852-1231

richard@cis106:~$ █
```