

# Completed Week Report

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## Discussion Board

History of Linux (Discussion Board 2)

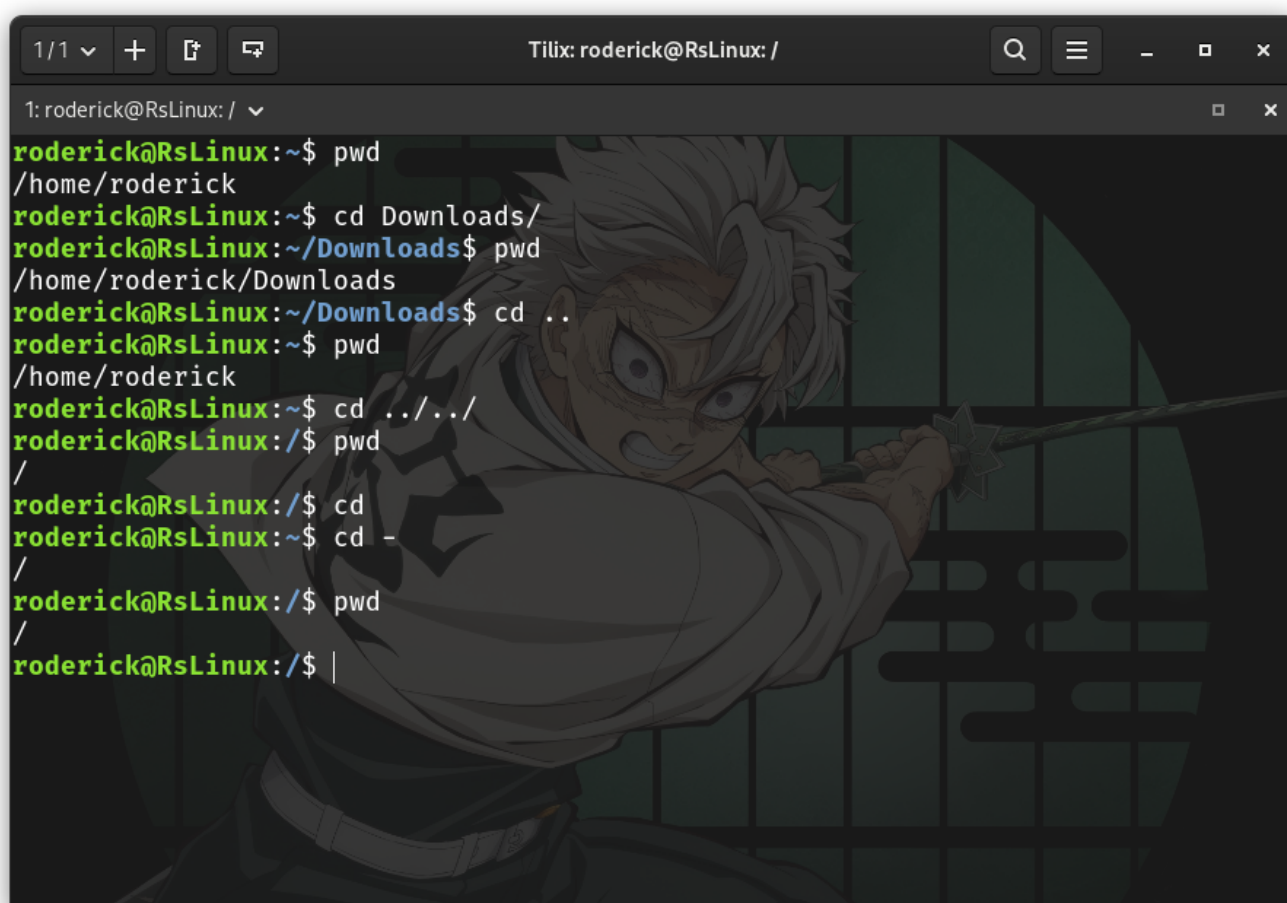
## Notes and lab

- [Lab5](#)
- [Notes5](#)

## Practices

Practice The Linux filesystem

### Practice 1

A screenshot of a Linux terminal window titled 'Tilix: roderick@RsLinux: /'. The terminal shows a series of commands and their outputs for navigating the filesystem. The user 'roderick' is at the prompt. The commands and outputs are: 'pwd' returns '/home/roderick'; 'cd Downloads/' returns '/home/roderick/Downloads'; 'pwd' returns '/home/roderick/Downloads'; 'cd ..' returns '/home/roderick'; 'pwd' returns '/home/roderick'; 'cd ../../' returns '/'; 'pwd' returns '/'; 'cd' returns '/'; 'cd -' returns '/'; 'pwd' returns '/'; and finally 'pwd' returns '/'. The terminal has a dark background with a faint anime-style illustration of a character with spiky hair and a sword. The window has standard Linux window controls (minimize, maximize, close) and a search icon in the top right.

```
1/1  +  [icon] [icon]  Tilix: roderick@RsLinux: /  [search] [menu] [minimize] [maximize] [close]
1: roderick@RsLinux: /  [close]
roderick@RsLinux:~$ pwd
/home/roderick
roderick@RsLinux:~$ cd Downloads/
roderick@RsLinux:~/Downloads$ pwd
/home/roderick/Downloads
roderick@RsLinux:~/Downloads$ cd ..
roderick@RsLinux:~$ pwd
/home/roderick
roderick@RsLinux:~$ cd ../../
roderick@RsLinux:/$ pwd
/
roderick@RsLinux:/$ cd
roderick@RsLinux:~$ cd -
/
roderick@RsLinux:/$ pwd
/
roderick@RsLinux:/$ |
```

### Practice 2

```
1/1 + [ ] [ ] Tilix: roderick@RsLinux: ~/practicels
1: roderick@RsLinux: ~/practicels
roderick@RsLinux:~/practicels$ ls
book.txt          homework.docx    song.mp3
countries.xml     movie.mp4        tux-nobg.png
history-debian.pdf people.csv       tux-penguin.gif
roderick@RsLinux:~/practicels$ ls -a
.                history-debian.pdf song.mp3
..              homework.docx      tux-nobg.png
book.txt        movie.mp4          tux-penguin.gif
countries.xml   people.csv
roderick@RsLinux:~/practicels$ ls -l
total 2932
-rw-rw-r-- 1 roderick roderick 1043 Feb 27 2022 book.txt
-rw-rw-r-- 1 roderick roderick 23972 Feb 27 2022 countries.xml
-rw-rw-r-- 1 roderick roderick 163057 Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 roderick roderick 111303 Feb 22 2022 homework.docx
-rw-rw-r-- 1 roderick roderick 1570024 Feb 27 2022 movie.mp4
-rw-rw-r-- 1 roderick roderick 284042 Feb 27 2022 people.csv
-rw-rw-r-- 1 roderick roderick 764176 Feb 27 2022 song.mp3
-rw-rw-r-- 1 roderick roderick 21314 Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 roderick roderick 44299 Jan 31 2020 tux-penguin.gif
roderick@RsLinux:~/practicels$
```

```
1/1 + [ ] [ ] Tilix: roderick@RsLinux: ~/practicels
1: roderick@RsLinux: ~/practicels
roderick@RsLinux:~/practicels$ ls -lh
total 2.9M
-rw-rw-r-- 1 roderick roderick 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 roderick roderick 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 roderick roderick 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 roderick roderick 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 roderick roderick 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 roderick roderick 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 roderick roderick 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 roderick roderick 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 roderick roderick 44K Jan 31 2020 tux-penguin.gif
roderick@RsLinux:~/practicels$ ls -lht
total 2.9M
-rw-rw-r-- 1 roderick roderick 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 roderick roderick 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 roderick roderick 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 roderick roderick 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 roderick roderick 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 roderick roderick 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 roderick roderick 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 roderick roderick 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 roderick roderick 44K Jan 31 2020 tux-penguin.gif
roderick@RsLinux:~/practicels$
```

```

Tilix: roderick@RsLinux: ~/practicels
1: roderick@RsLinux: ~/practicels
roderick@RsLinux:~/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
-rw-rw-r-- 1 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 1.1K Feb 27 2022 book.txt
roderick@RsLinux:~/practicels$ ls -mr
tux-penguin.gif, tux-nobg.png, song.mp3, people.csv, movie.mp4, homework.docx,
history-debian.pdf, countries.xml, book.txt
roderick@RsLinux:~/practicels$ ls -lX
people.csv
homework.docx
tux-penguin.gif
song.mp3
movie.mp4
history-debian.pdf
tux-nobg.png
book.txt
countries.xml

```

## Challenge Practice

```

Tilix: roderick@RsLinux: /usr
1: roderick@RsLinux: /usr
roderick@RsLinux:~$ pwd
/home/roderick
roderick@RsLinux:~$ cd
roderick@RsLinux:~$ cd /
roderick@RsLinux:/$ cd usr/share/themes
roderick@RsLinux:/usr/share/themes$ cd ../../
roderick@RsLinux:/usr$ ls -A ~
.bash_aliases
.bash_history
.bash_logout
.bashrc
breathing
.cache
cis106
cis106.zip
.config
Desktop
Documents
.dotnet
Downloads
.face
.face.icon
.fonts
.gitconfig
.gnupg
'in-class notes'
'In-class practice'
lab5files

2: roderick@RsLinux: ~
roderick@RsLinux:~$ ls --help
Usage: ls [OPTION]... [FILE]...
List information about the FILES (the current directory by default).
Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.

Mandatory arguments to long options are mandatory for short options too.
  -a, --all                do not ignore entries starting with .
  -A, --almost-all        do not list implied . and ..
      --author              with -l, print the author of each file
  -b, --escape             print C-style escapes for nongraphical characters
      --block-size=SIZE    with -l, scale sizes by SIZE when printing them;
                           e.g., '--block-size=M'; see SIZE format below
  -B, --ignore-backups     do not list implied entries ending with ~
  -c                        with -lt: sort by, and show, ctime (time of last
                           change of file status information);
                           with -l: show ctime and sort by name;

```



```

1/1  +  [icons]  Tilix: roderick@RsLinux: ~
1: roderick@RsLinux: ~
.wget-hsts
WindBreathing
roderick@RsLinux:~$ cd; ls -tX cis106/
cheats labs notes week_reports README.md
roderick@RsLinux:~$ ls -rR ~/cis106/
/home/roderick/cis106/:
week_reports README.md notes labs cheats

/home/roderick/cis106/week_reports:
wr5 wr4 wr3 wr2 wr1

/home/roderick/cis106/week_reports/wr5:
wr5.md P2.3.png P2.2.png P2.1.png P1.png CP1.1.png

/home/roderick/cis106/week_reports/wr4:
wr4.pdf TetrisGameplay.png Hellosh.png
wr4.md SudoAptBastet.png

/home/roderick/cis106/week_reports/wr3:
wr3.pdf Practice8SS.png Practice4SS.png
wr3.md Practice7.png Practice3SS.png
wr3.html Practice6SS.png Practice10SS.png
Practice9SS.png Practice5SS.png

/home/roderick/cis106/week_reports/wr2:
wr2screenshotpng wr2.pdf wr2.md

/home/roderick/cis106/week_reports/wr1:
wr1.pdf wr1 ScreenshotGitHub.png

```

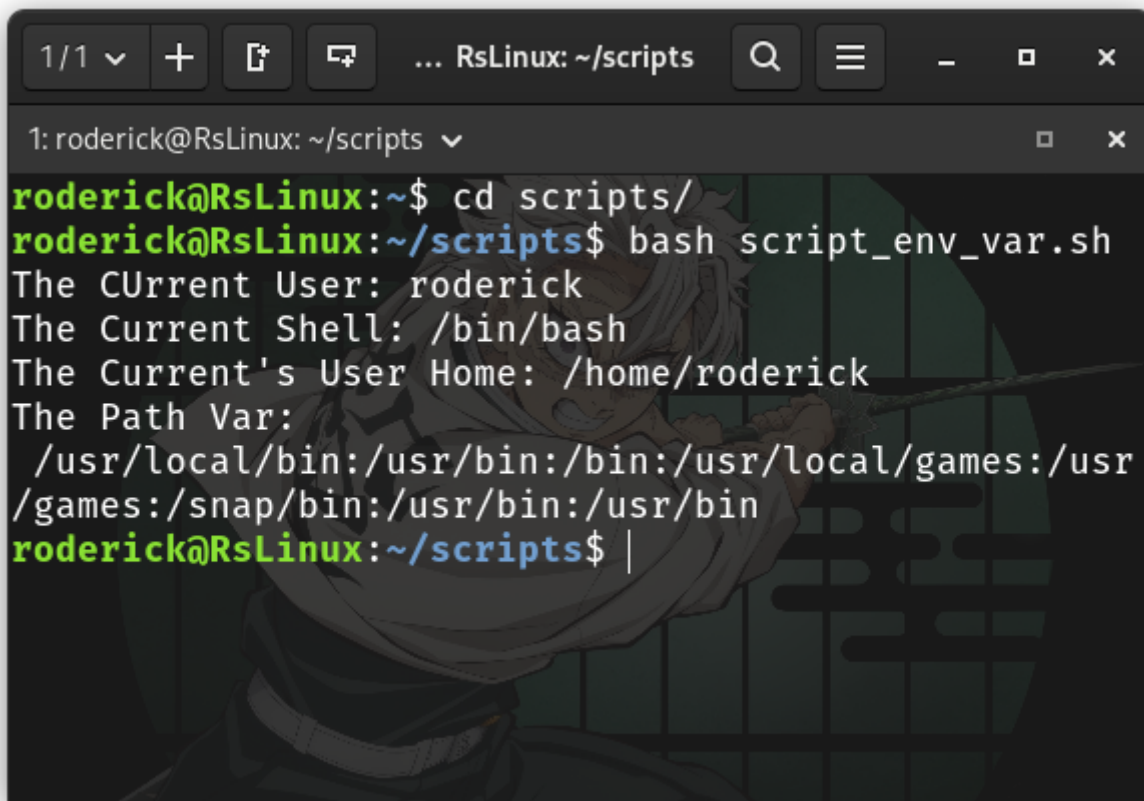
```

1/1  +  [icons]  Tilix: roderick@RsLinux: ~
1: roderick@RsLinux: ~
roderick@RsLinux:~$ ls -lh ~
total 23M
drwxrwxr-x 2 roderick roderick 4.0K Oct 23 18:46 breathing
drwxrwxr-x 7 roderick roderick 4.0K Oct 21 18:36 cis106
-rw-rw-r-- 1 roderick roderick 17M Oct 18 18:32 cis106.zip
drwxr-xr-x 2 roderick roderick 4.0K Nov 2 23:13 Desktop
drwxr-xr-x 3 roderick roderick 4.0K Oct 30 18:36 Documents
drwxr-xr-x 2 roderick roderick 4.0K Nov 2 22:05 Downloads
drwxrwxr-x 2 roderick roderick 4.0K Oct 23 17:51 'in-class notes'
drwxrwxr-x 4 roderick roderick 4.0K Oct 23 18:39 'In-class practice'
drwxrwxr-x 2 roderick roderick 4.0K Feb 22 2022 lab5files
-rw-rw-r-- 1 roderick roderick 3.5M Nov 2 22:04 lab5files.zip
drwxrwxr-x 3 roderick roderick 4.0K Nov 2 22:27 marstenHouse
-rw-rw-r-- 1 roderick roderick 3.4K Oct 29 14:47 marstenhouse.sh
drwxr-xr-x 2 roderick roderick 4.0K Sep 20 00:01 Music
drwxr-xr-x 3 roderick roderick 4.0K Oct 21 18:36 Pictures
drwxrwxr-x 2 roderick roderick 4.0K Feb 27 2022 practicels
-rw-rw-r-- 1 roderick roderick 2.2M Oct 29 14:47 practicels.tar.xz
drwxr-xr-x 2 roderick roderick 4.0K Sep 20 00:01 Public
drwxrwxr-x 2 roderick roderick 4.0K Oct 23 21:47 scripts
drwx----- 3 roderick roderick 4.0K Oct 1 17:05 snap
drwxrwxr-x 2 roderick roderick 4.0K Oct 23 18:47 StoneBreathing
drwxrwxr-x 2 roderick roderick 4.0K Oct 23 18:46 styles
-rw-r--r-- 1 roderick roderick 260 Oct 21 19:01 'sudo apt install bastet -y'
drwxr-xr-x 2 roderick roderick 4.0K Sep 20 00:01 Templates
-rw-rw-r-- 1 roderick roderick 401 Oct 23 18:46 'The difference in a variable.txt'
drwxr-xr-x 2 roderick roderick 4.0K Sep 20 00:01 Videos
drwxrwxr-x 2 roderick roderick 4.0K Oct 23 18:44 wallpapers
drwxrwxr-x 2 roderick roderick 4.0K Oct 23 18:47 WaterBreathing

```

## Shell encrypting

### Practice 2

A terminal window titled "RsLinux: ~/scripts" with standard window controls. The prompt is "1: roderick@RsLinux: ~/scripts". The user enters "cd scripts/" and then "bash script\_env\_var.sh". The script outputs system information: "The Current User: roderick", "The Current Shell: /bin/bash", "The Current's User Home: /home/roderick", and "The Path Var:" followed by a multi-line path string. The prompt returns to "roderick@RsLinux: ~/scripts\$".

```
1/1 + ... RsLinux: ~/scripts
1: roderick@RsLinux: ~/scripts
roderick@RsLinux:~$ cd scripts/
roderick@RsLinux:~/scripts$ bash script_env_var.sh
The Current User: roderick
The Current Shell: /bin/bash
The Current's User Home: /home/roderick
The Path Var:
/usr/local/bin:/usr/bin:/bin:/usr/local/games:/usr
/games:/snap/bin:/usr/bin:/usr/bin
roderick@RsLinux:~/scripts$ |
```

### Practice 3