

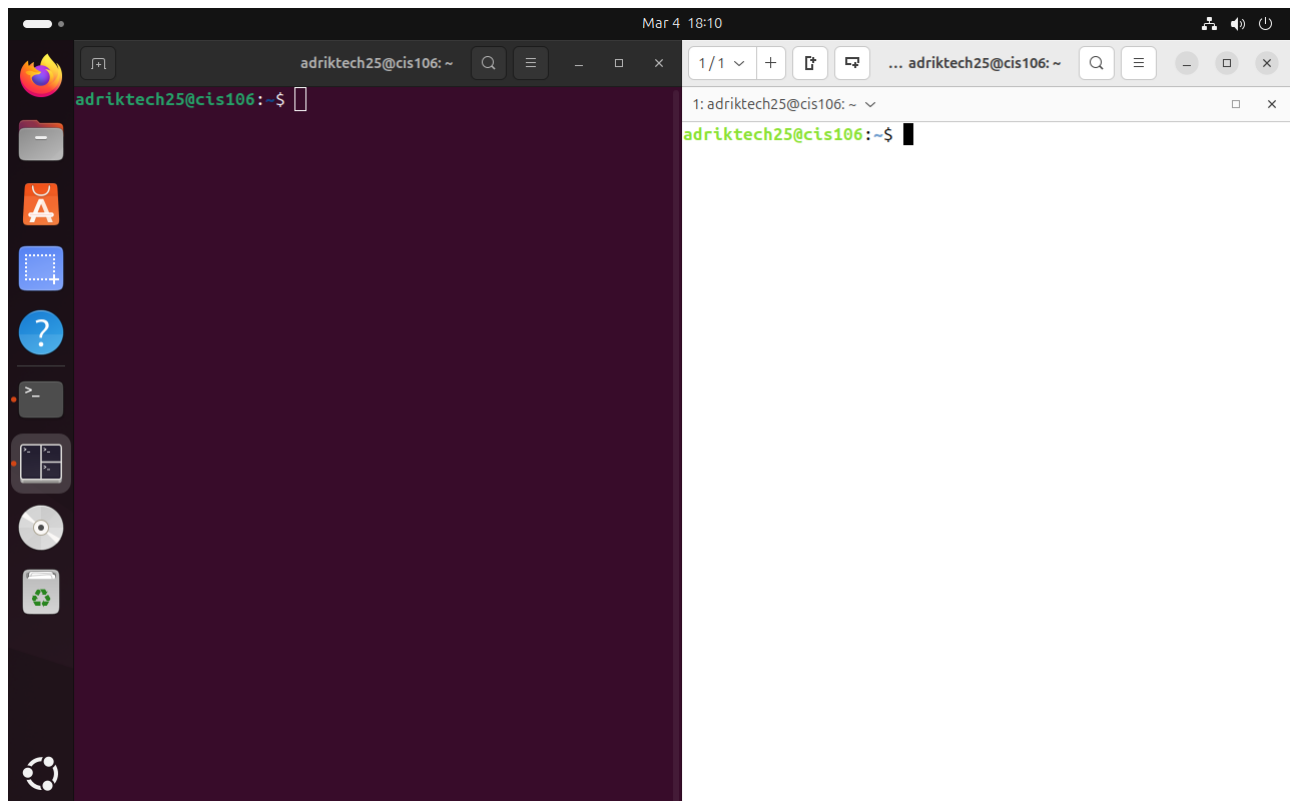
Week Report 3

Completed work for week 3

- [Lab 3](#)
- [Notes 3](#)

Practice

Practice 1



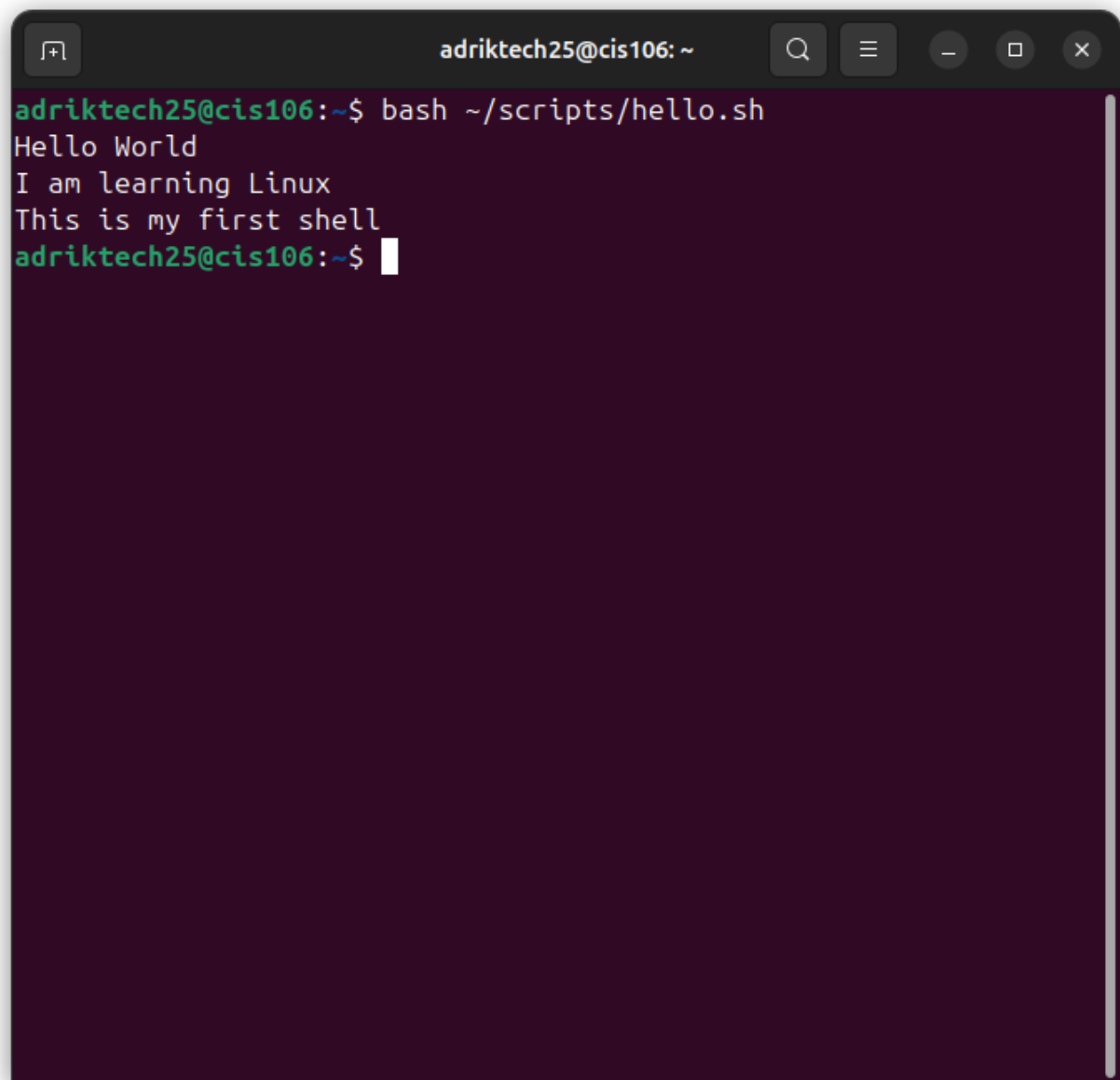
Practice 2

```
adriktech25@cis106: ~  
adriktech25@cis106:~$ bash --version  
GNU bash, version 5.2.21(1)-release (x86_64-pc-linux-gnu)  
Copyright (C) 2022 Free Software Foundation, Inc.  
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>  
  
This is free software; you are free to change and redistribute it.  
There is NO WARRANTY, to the extent permitted by law.  
adriktech25@cis106:~$
```

Practice 3

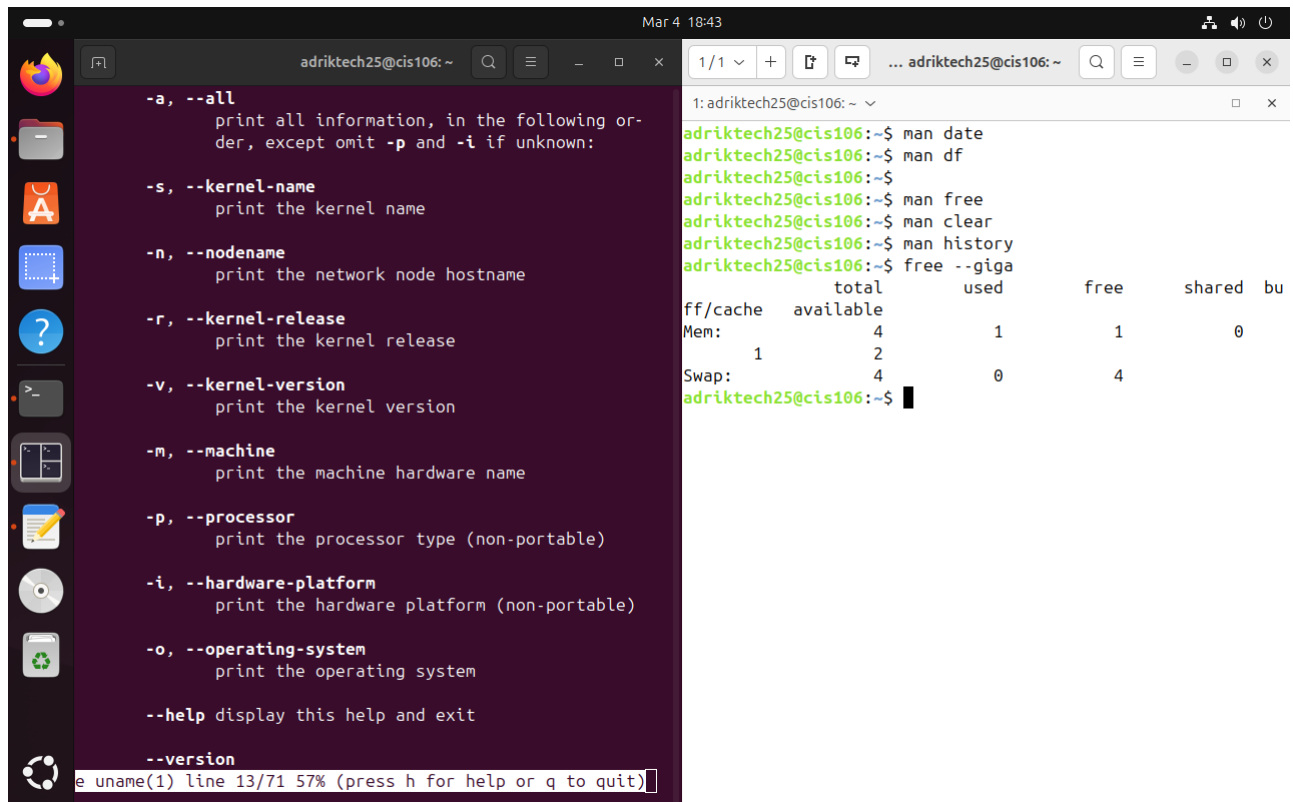
```
adriktech25@cis106: ~  
adriktech25@cis106:~$ history  
 1 bash --version  
 2 clear  
 3 date  
 4 echo "hello world"  
 5 uname -a  
 6 history  
adriktech25@cis106:~$ !#  
adriktech25@cis106:~$ !# "hello world"  
"hello world"  
Command 'hello world' not found, did you mean:  
  command 'hello-world' from snap hello-world (6.4)  
See 'snap info <snapname>' for additional versions.  
adriktech25@cis106:~$ !# echo "hello world"  
echo "hello world"  
hello world  
adriktech25@cis106:~$ !!  
history  
 1 bash --version  
 2 clear  
 3 date  
 4 echo "hello world"  
 5 uname -a  
 6 history  
 7 history  
adriktech25@cis106:~$ echo "hello"  
hello  
adriktech25@cis106:~$ !!world  
echo "hello"world  
helloworld  
adriktech25@cis106:~$
```

Practice 4

A terminal window with a dark purple background. The title bar at the top shows 'adriktech25@cis106: ~' and standard window controls. The terminal content shows a user running a shell script. The prompt is 'adriktech25@cis106:~\$'. The command entered is 'bash ~/scripts/hello.sh'. The output consists of three lines: 'Hello World', 'I am learning Linux', and 'This is my first shell'. The prompt 'adriktech25@cis106:~\$' is shown again with a white cursor at the end.

```
adriktech25@cis106:~$ bash ~/scripts/hello.sh
Hello World
I am learning Linux
This is my first shell
adriktech25@cis106:~$
```

Practice 5



The screenshot shows a Linux desktop environment with a terminal window and a terminal emulator window. The terminal window displays the man page for the 'uname' command, listing various options and their descriptions. The terminal emulator window shows the execution of the 'free --giga' command, displaying memory usage statistics in gigabytes.

```
-a, --all
    print all information, in the following order, except omit -p and -i if unknown:

-s, --kernel-name
    print the kernel name

-n, --nodename
    print the network node hostname

-r, --kernel-release
    print the kernel release

-v, --kernel-version
    print the kernel version

-m, --machine
    print the machine hardware name

-p, --processor
    print the processor type (non-portable)

-i, --hardware-platform
    print the hardware platform (non-portable)

-o, --operating-system
    print the operating system

--help display this help and exit

--version
```

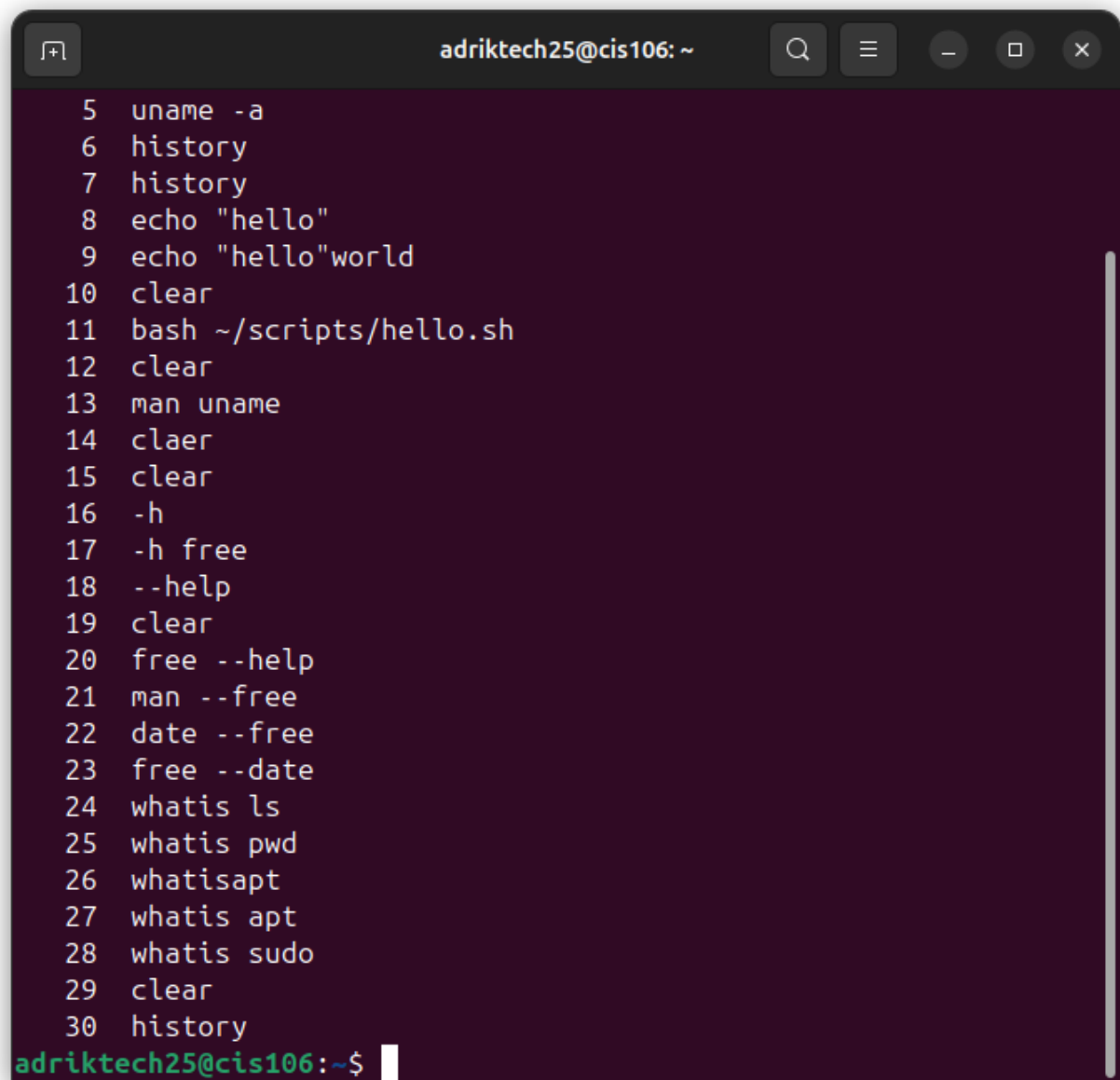
1: adriktech25@cis106: ~

```
adriktech25@cis106:~$ man date
adriktech25@cis106:~$ man df
adriktech25@cis106:~$ man free
adriktech25@cis106:~$ man clear
adriktech25@cis106:~$ man history
adriktech25@cis106:~$ free --giga
```

	total	used	free	shared	bu
Mem:	4	1	1	0	
Swap:	4	0	4		

adriktech25@cis106:~\$

Practice 6

A terminal window with a dark purple background and white text. The window title is 'adriktech25@cis106: ~'. The terminal displays a list of 30 commands from a shell history, numbered 5 to 30. The commands include 'uname -a', 'history', 'echo "hello"', 'echo "hello"world', 'clear', 'bash ~/scripts/hello.sh', 'man uname', 'claer', 'free --help', 'man --free', 'date --free', 'whatis ls', 'whatis pwd', 'whatis apt', 'whatis sudo', and 'history'. The prompt 'adriktech25@cis106:~\$' is visible at the bottom with a cursor.

```
5  uname -a
6  history
7  history
8  echo "hello"
9  echo "hello"world
10 clear
11 bash ~/scripts/hello.sh
12 clear
13 man uname
14 claer
15 clear
16 -h
17 -h free
18 --help
19 clear
20 free --help
21 man --free
22 date --free
23 free --date
24 whatis ls
25 whatis pwd
26 whatis apt
27 whatis apt
28 whatis sudo
29 clear
30 history
adriktech25@cis106:~$
```

Practice 7

```

1/1  +  [ ] [ ]  Tilix: adriktech25@cis106: /
1: adriktech25@cis106: /
tar -tzvf /path/to/foo.tgz
tar -tzvf /path/to/foo.tar.gz

# To extract a .tar.bz2 archive:
tar -xjvf /path/to/foo.tar.bz2

# To create a .tar.bz2 archive:
tar -cjvf /path/to/foo.tar.bz2 /path/to/foo/

# To list the content of an .tar.bz2 archive:
tar -tjvf /path/to/foo.tar.bz2

# To create a .tgz archive and exclude all jpg,gif,... from the tgz:
tar -czvf /path/to/foo.tgz --exclude=*. {jpg,gif,png,wmv,flv,tar.gz,zip} /path/to/foo/

# To use parallel (multi-threaded) implementation of compression algorithms:
tar -z ... -> tar -Ipigz ...
tar -j ... -> tar -Ipbzip2 ...
tar -J ... -> tar -Ipixz ...

# To append a new file to an old tar archive:
tar -rf <archive.tar> <new-file-to-append>
adriktech25@cis106:/$

```

Practice 1 - Managing software

```

1/1  +  [ ] [ ]  Tilix: adriktech25@cis106: ~
1: adriktech25@cis106: ~  2: adriktech25@cis106: ~
Processing triggers for gnome-menus (3.36.0-1.1ubuntu3) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for desktop-file-utils (0.27-2build1) ...
adriktech25@cis106:~$ sudo apt purge bastet
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  libboost-program-options1.83.0
Use 'sudo apt autoremove' to remove it.
The following packages will be REMOVED:
  bastet*
0 upgraded, 0 newly installed, 1 to remove and 87 not upgraded.
After this operation, 0 B of additional disk space will be used.
Do you want to continue? [Y/n] y
(Reading database ... 197771 files and directories currently installed.)
Purging configuration files for bastet (0.43-7build1) ...
adriktech25@cis106:~$

```



Practice 3 - Managing software

```
1/1  +  [share] [help]  Tilix: adriktech25@cis106: ~  [search] [menu] [back] [forward] [close]
1: adriktech25@cis106: ~
adriktech25@cis106:~$ snap search "tetris clone"
Name            Version  Publisher  Notes  Summary
tetris-in-racket 1.2-2    brunonova  -      Tetris clone developed in Racket
vitetris         0.57     bladernr   -      Console based version of Tetris
fairtris         3.0.0.4  chronoscz  -      A fair implementation of Classic Tetris® video game.
pmtris           1.0      kz6fittycent -      Poor Man's Tetris Clone
ltris-windows    1.2.3    marisag1967 -      A free Tetris clone that follows the original rules but adds some extras
adriktech25@cis106:~$ snap install "tetris in racket"
error: cannot install "tetris in racket": invalid instance name: invalid snap name: "tetris in racket"
adriktech25@cis106:~$ sudo snap install "tetris in racket"
error: cannot install "tetris in racket": invalid instance name: invalid snap name: "tetris in racket"
adriktech25@cis106:~$ sudo snap install "tetris-in-racket"
tetris-in-racket 1.2-2 from Bruno Nova (brunonova) installed
adriktech25@cis106:~$ sudo snap remove "tetris-in-racket"
tetris-in-racket removed
adriktech25@cis106:~$ █
```