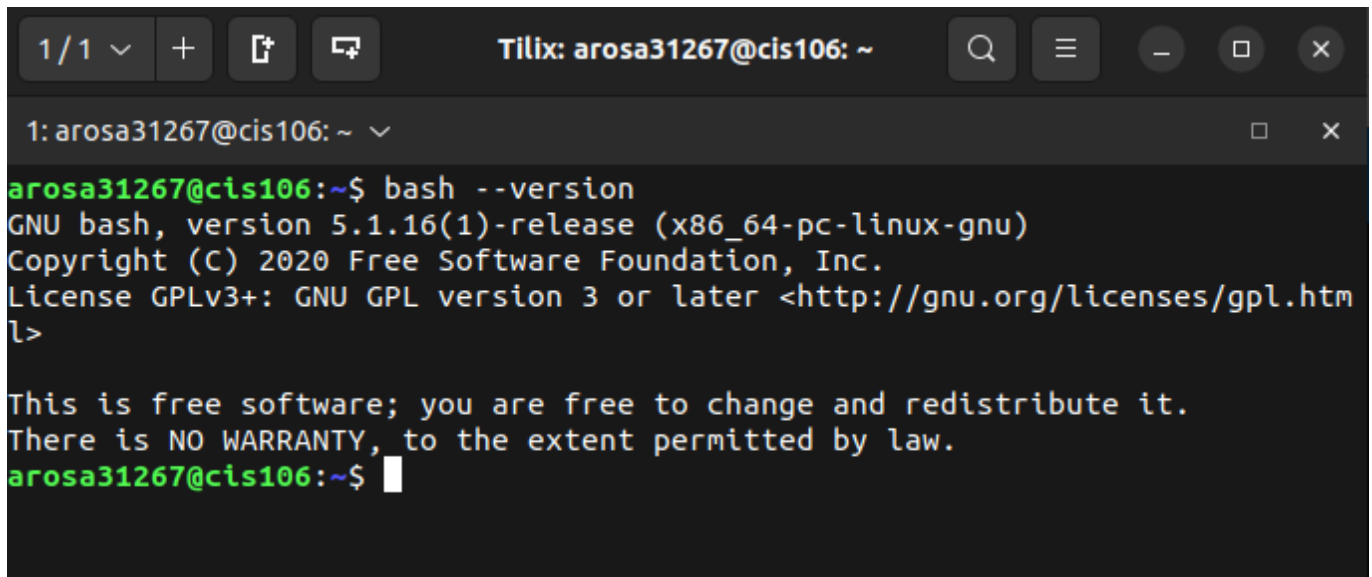


Week Report 3

Completed work for week 3

- [Lab 3](#)
- [Notes 1](#)

Practice 2: Accessing the bash shell



```
Tilix: arosa31267@cis106: ~  
1: arosa31267@cis106: ~  
aros31267@cis106:~$ bash --version  
GNU bash, version 5.1.16(1)-release (x86_64-pc-linux-gnu)  
Copyright (C) 2020 Free Software Foundation, Inc.  
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.htm  
l>  
  
This is free software; you are free to change and redistribute it.  
There is NO WARRANTY, to the extent permitted by law.  
aros31267@cis106:~$
```

Practice 3: Using the command history

```
1/1  +  [ ] [ ] Tilix: arosa31267@cis106: ~  [ ] [ ] [ ] [ ] [ ]
1: arosa31267@cis106: ~  [ ] [ ]
120 bash ~/cis106/labs/lab3/challenge_lab3.sh
121 CLEAR
122 clear
123 bash ~/cis106/labs/lab3/challenge_lab3.sh
124 git pull
125 git add .
126 git commit -m "lab 3 finished"
127 git push
128 git add .
129 git commit -m "notes 1 done"
130 git push
131 bash --version
132 clear
133 date
134 echo "hello world"
135 uname -a
136 history
aros31267@cis106:~$ !134
echo "hello world"
hello world
aros31267@cis106:~$ !!
echo "hello world"
hello world
aros31267@cis106:~$ echo "hello"
hello
aros31267@cis106:~$ !!world
echo "hello"world
helloworld
aros31267@cis106:~$
```

Practice 4: My first shell script

```
1/1  +  [ ] [ ] Tilix: arosa31267@cis106: ~  [ ] [ ] [ ] [ ] [ ]
1: arosa31267@cis106: ~  [ ] [ ]
aros31267@cis106:~$ bash ~/scripts/hello.sh
hello world
I am learning Linux
This is my first shell script
aros31267@cis106:~$
```

Practice 5: Using Man

The screenshot shows a terminal window with two panes. The left pane shows the execution of the 'uname' command with various options: -s, -n, -io, and -i. It also shows the output of 'man date', 'man df', 'man clear', and 'man history'. The right pane shows the man page for 'uname', which includes the command's name, synopsis, and description. The man page text is as follows:

```

NAME
    uname - print system information

SYNOPSIS
    uname [OPTION]...

DESCRIPTION
    Print certain system information. With no OPTION, same as -s.

    -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
  
```

The terminal window title is 'Tilix: arosa31267@cis106: ~'. The left pane shows the user 'aros31267@cis106' and the right pane shows the user 'aros31267@cis106'.

Practice 6: Using the help option

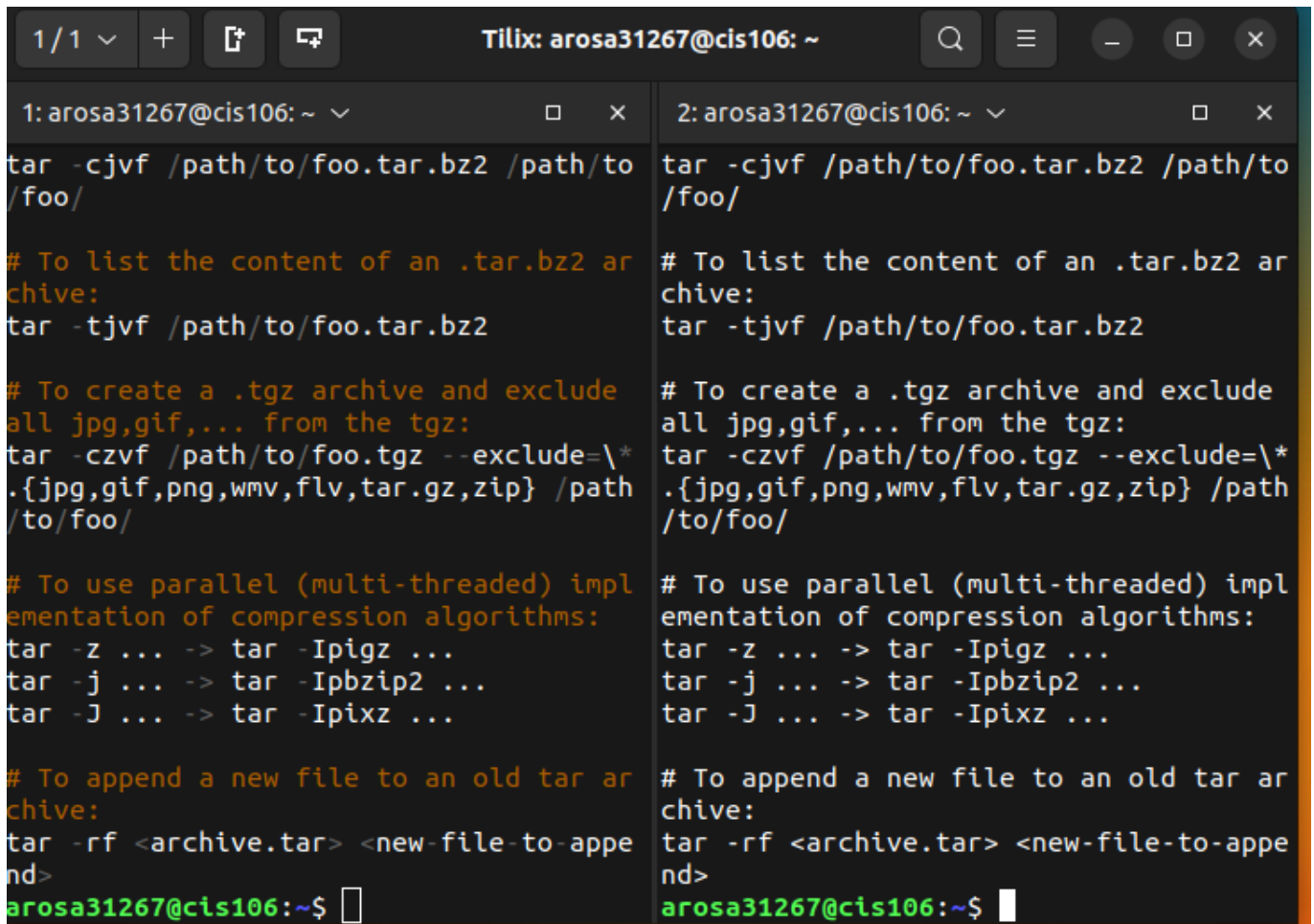
The screenshot shows a terminal window with the following commands and their outputs:

```

aros31267@cis106:~$ whatis ls
ls (1) - list directory contents
aros31267@cis106:~$ whatis pwd
pwd (1) - print name of current/working directory
aros31267@cis106:~$ whatis apt
apt (8) - command-line interface
aros31267@cis106:~$ whatis sudo
sudo (8) - execute a command as another user
aros31267@cis106:~$
  
```

The terminal window title is 'Tilix: arosa31267@cis106: ~'. The left pane shows the user 'aros31267@cis106' and the right pane shows the user 'aros31267@cis106'.

Practice 7: Cheat!



The image shows a Tmux terminal window with two panes. The title bar reads "Tmux: arosa31267@cis106: ~". The left pane is titled "1: arosa31267@cis106: ~" and the right pane is titled "2: arosa31267@cis106: ~". Both panes contain the same text, which is a list of tar command cheatsheets. The text is as follows:

```
tar -cjvf /path/to/foo.tar.bz2 /path/to/
foo/

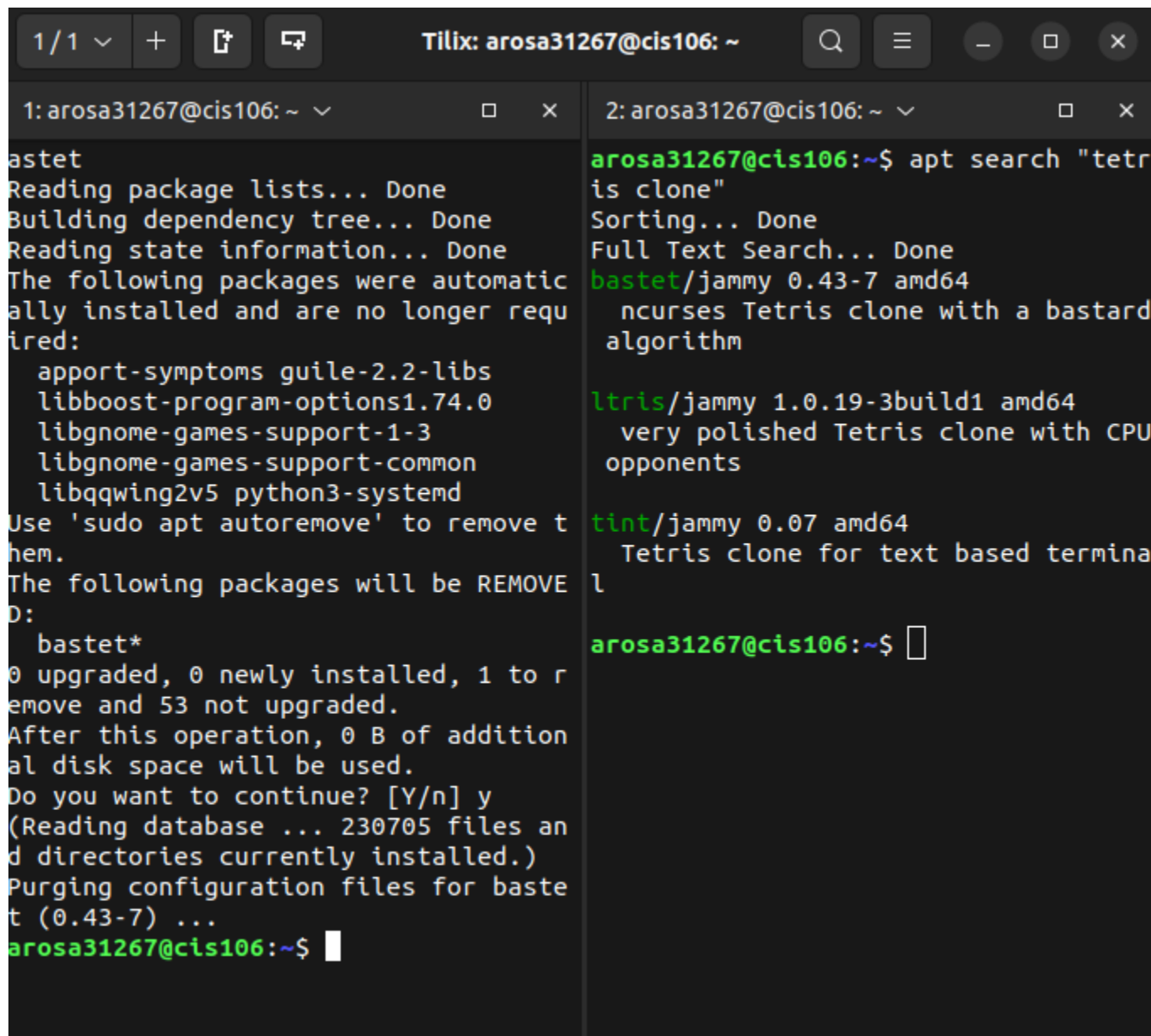
# To list the content of an .tar.bz2 ar
chive:
tar -tjvf /path/to/foo.tar.bz2

# 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) impl
ementation of compression algorithms:
tar -z ... -> tar -Ipigz ...
tar -j ... -> tar -Ipbzip2 ...
tar -J ... -> tar -Ipixz ...

# To append a new file to an old tar ar
chive:
tar -rf <archive.tar> <new-file-to-appen
d>
aros31267@cis106:~$
```

Practice 1: Managing software



```
1: arosa31267@cis106: ~  
bastet  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following packages were automatically installed and are no longer required:  
  apport-symptoms guile-2.2-libs  
  libboost-program-options1.74.0  
  libgnome-games-support-1-3  
  libgnome-games-support-common  
  libqqwing2v5 python3-systemd  
Use 'sudo apt autoremove' to remove them.  
The following packages will be REMOVED:  
  bastet*  
0 upgraded, 0 newly installed, 1 to remove and 53 not upgraded.  
After this operation, 0 B of additional disk space will be used.  
Do you want to continue? [Y/n] y  
(Reading database ... 230705 files and directories currently installed.)  
Purging configuration files for bastet (0.43-7) ...  
aros31267@cis106:~$  
  
2: arosa31267@cis106: ~  
aros31267@cis106:~$ apt search "tetris clone"  
Sorting... Done  
Full Text Search... Done  
bastet/jammy 0.43-7 amd64  
  ncurses Tetris clone with a bastard algorithm  
  
ltris/jammy 1.0.19-3build1 amd64  
  very polished Tetris clone with CPU opponents  
  
tint/jammy 0.07 amd64  
  Tetris clone for text based terminal  
  
aros31267@cis106:~$
```

Practice 3: Installing and removing apps

```
1 / 1  +  [icon] [icon]  Tilix: arosa31267@cis106: ~  [search] [menu] [minus] [maximize] [close]

1: arosa31267@cis106: ~  [close] [close]

rosa31267@cis106:~$ snap search "tetris clone"
name                Version  Publisher  Notes  Summary
tetris-in-racket    1.2-2    brunonova  -      Tetris clone developed in Racket
itetris             0.57     bladernr   -      Console based version of Tetris
airtris            3.0.0.4  chronoscz  -      A fair implementation of Classic
Tetris® video game.
tmtris             1.0      kz6fittycent -      Poor Man's Tetris Clone
tetris-windows      1.2.3    marisag1967 -      A free Tetris clone that follows
the original rules but adds some extras
rosa31267@cis106:~$ sudo snap install tetris-in-racket
[sudo] password for arosa31267:
tetris-in-racket 1.2-2 from Bruno Nova (brunonova) installed
rosa31267@cis106:~$ sudo snap remove tetris-in-racket
tetris-in-racket removed
rosa31267@cis106:~$
```