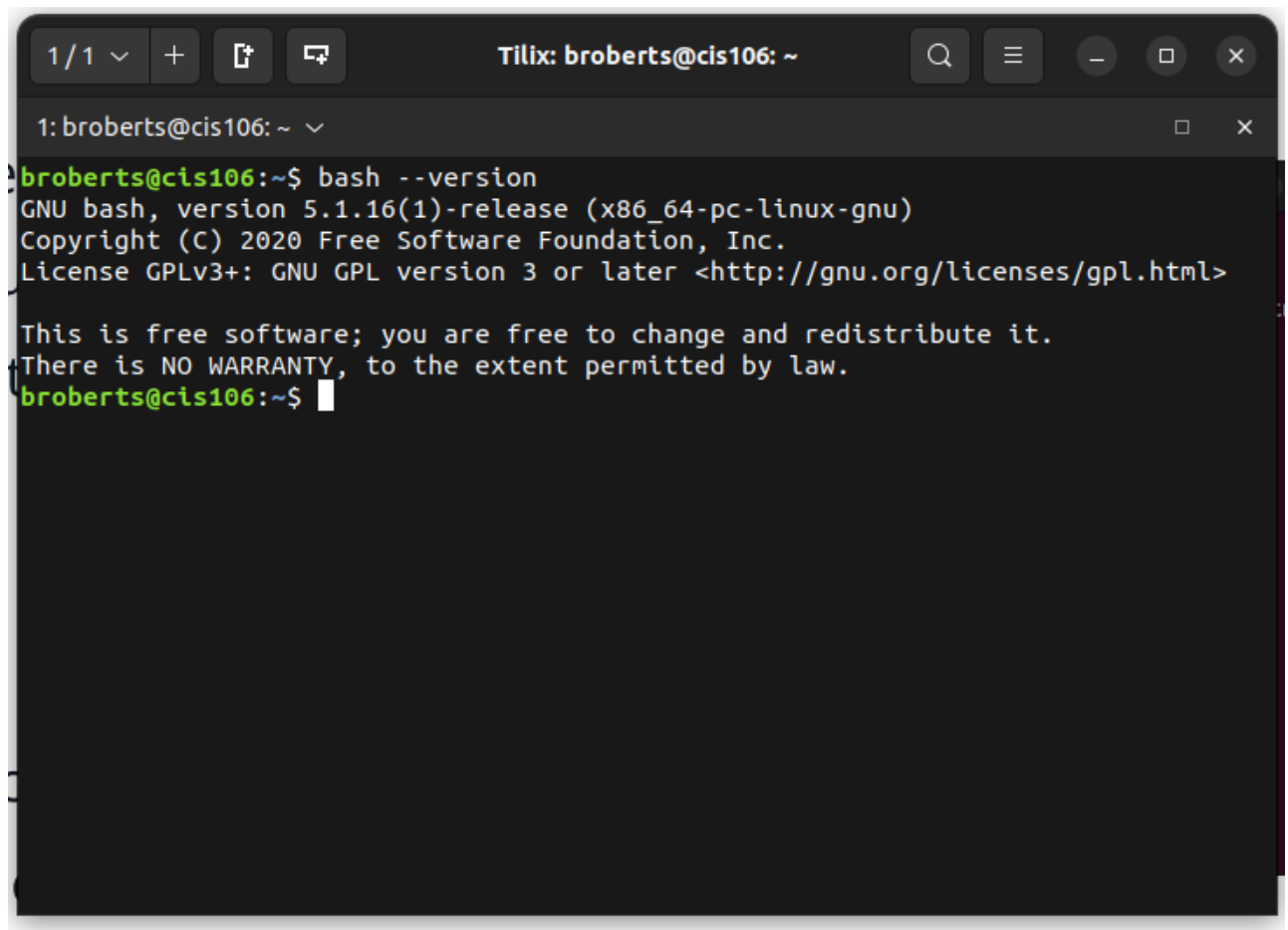


Week Report 3

Completed work for week 3

- [Lab 3](#)
- [Notes1](#)

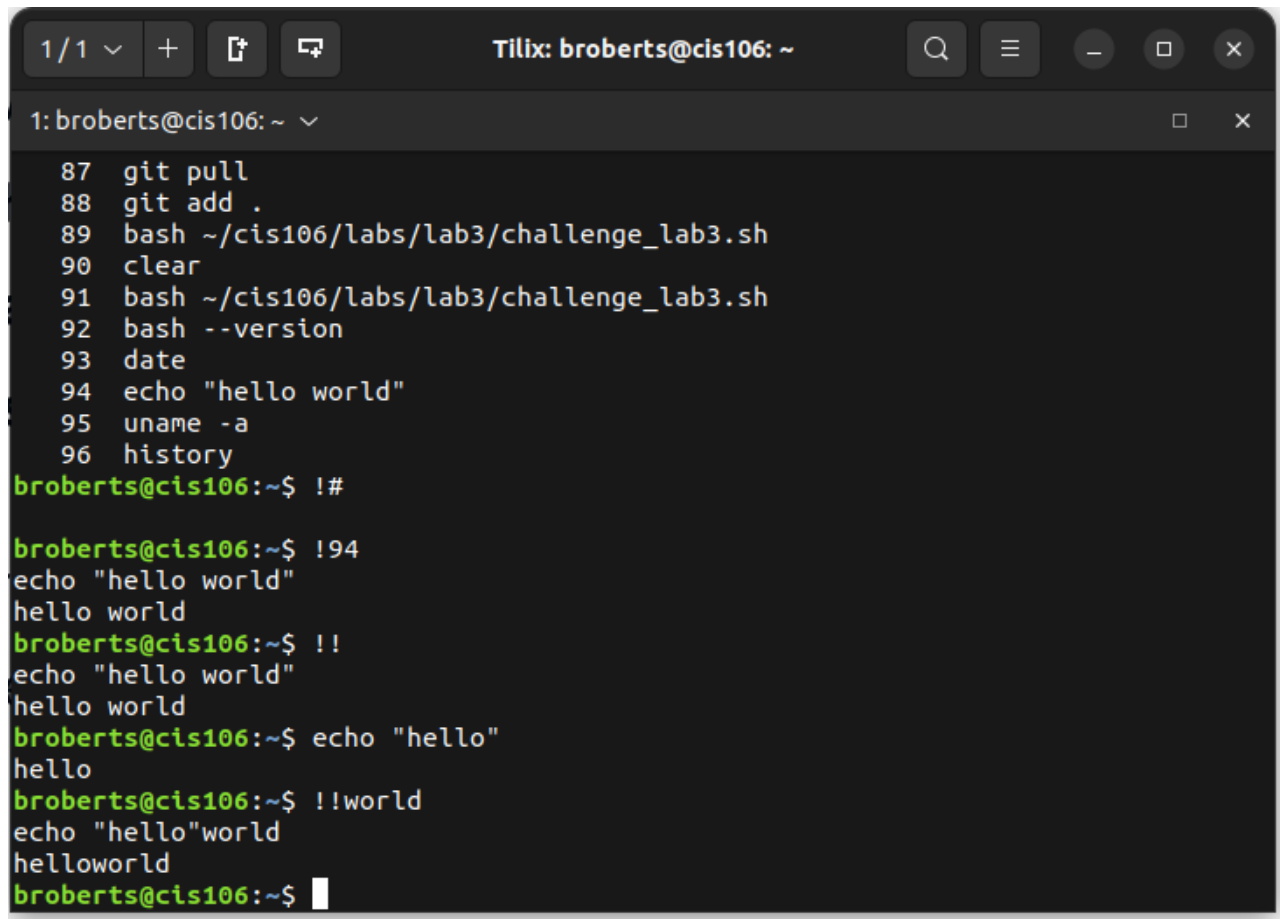
Practice 2: Accessing the bash shell

A screenshot of a terminal window titled "Tilix: broberts@cis106: ~". The terminal shows the command "bash --version" being executed. The output displays the GNU bash version 5.1.16(1)-release for x86_64-pc-linux-gnu, along with copyright information for the Free Software Foundation, Inc. (2020) and the GNU GPL license details. It also includes a statement about the software being free and without warranty.

```
1/1  +  [icon] [icon]  Tilix: broberts@cis106: ~  [search] [menu] [zoom] [close]
1: broberts@cis106: ~  [close]
broberts@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.html>

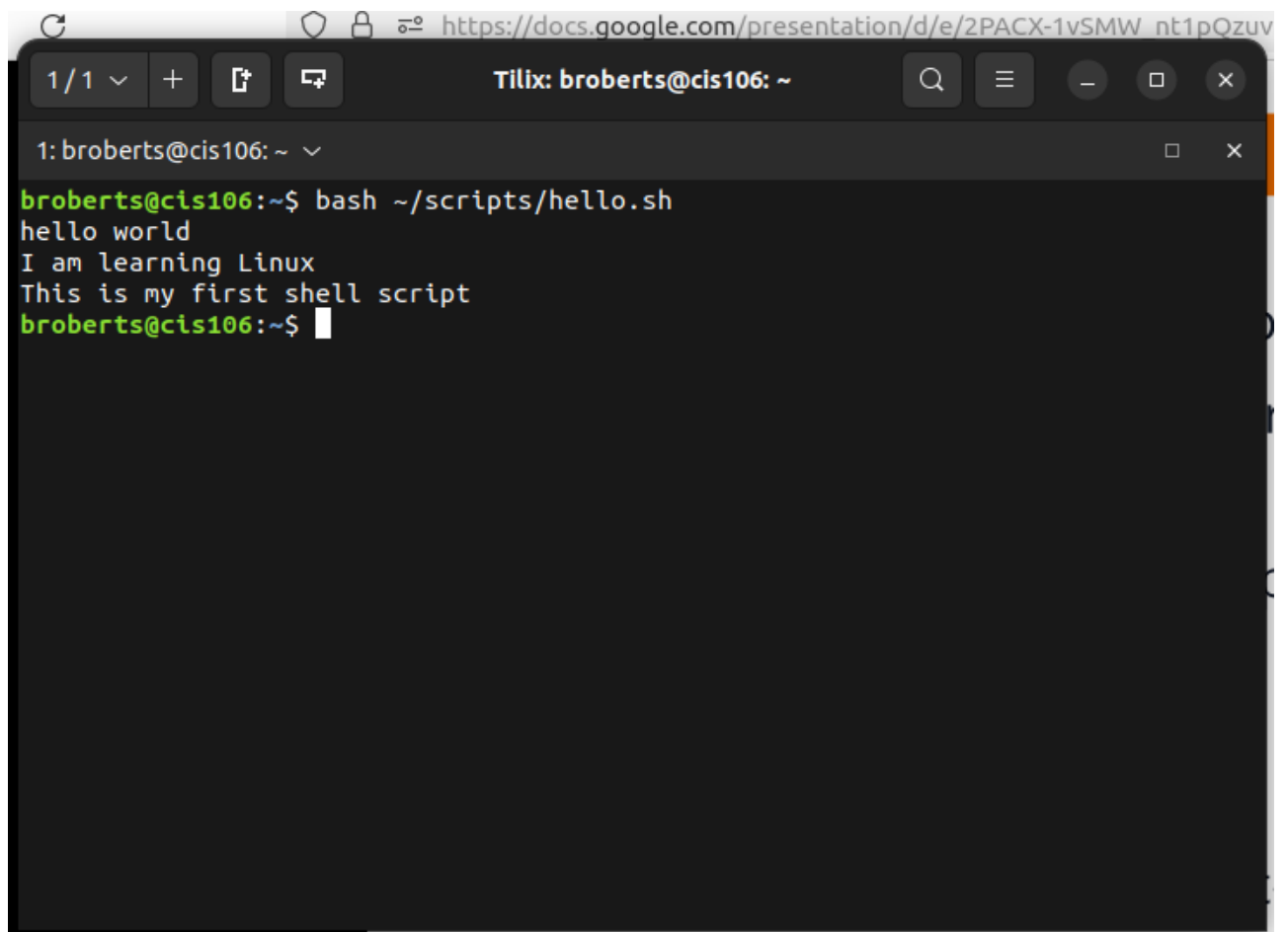
This is free software; you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
broberts@cis106:~$
```

Practice 3: Using the command history



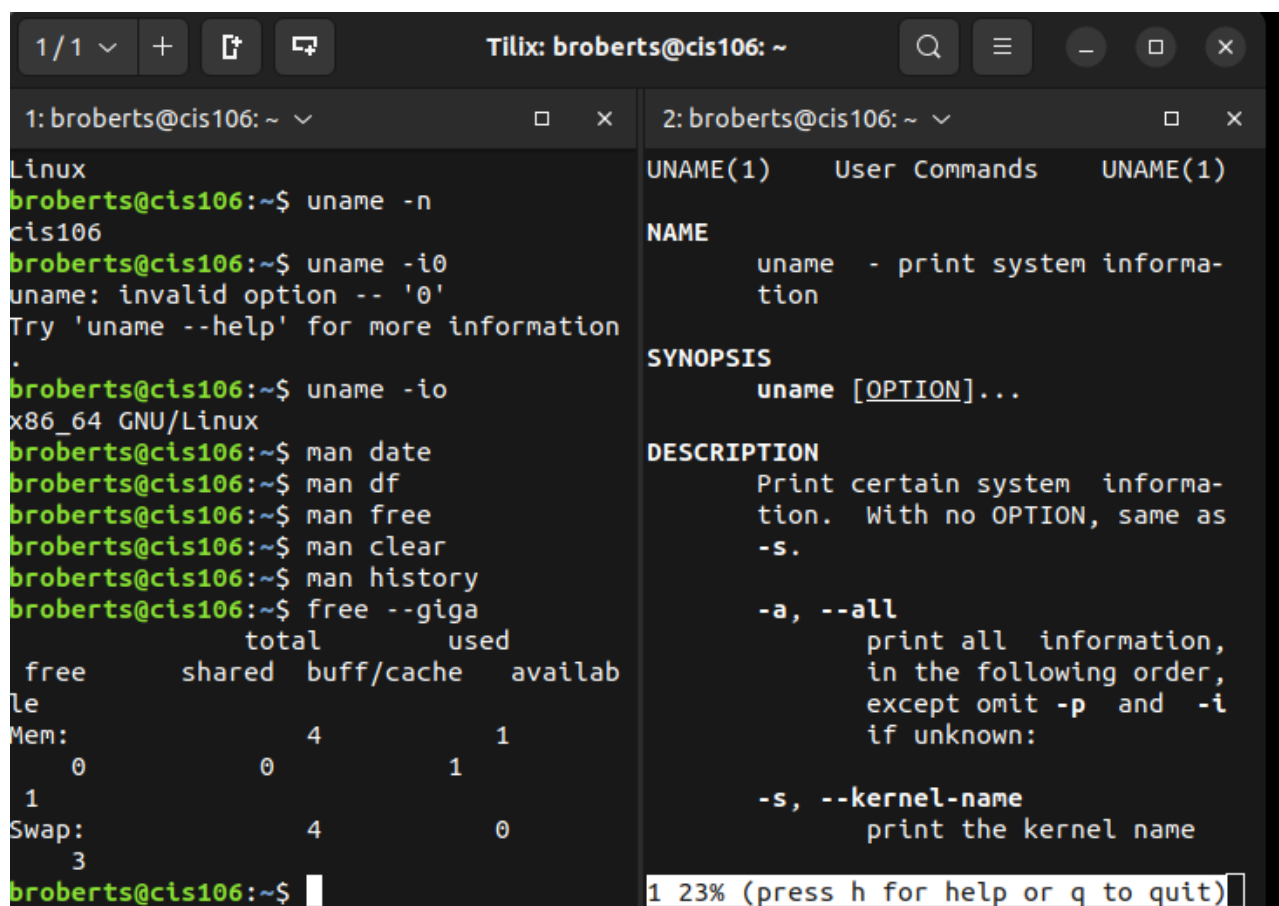
```
1/1  +  [icon] [icon]  Tilix: broberts@cis106: ~  [search] [menu] [back] [forward] [close]
1: broberts@cis106: ~  [close]
87  git pull
88  git add .
89  bash ~/cis106/labs/lab3/challenge_lab3.sh
90  clear
91  bash ~/cis106/labs/lab3/challenge_lab3.sh
92  bash --version
93  date
94  echo "hello world"
95  uname -a
96  history
broberts@cis106:~$ !#
broberts@cis106:~$ !94
echo "hello world"
hello world
broberts@cis106:~$ !!
echo "hello world"
hello world
broberts@cis106:~$ echo "hello"
hello
broberts@cis106:~$ !!world
echo "hello"world
helloworld
broberts@cis106:~$
```

Practice 4: My first shell script



```
https://docs.google.com/presentation/d/e/2PACX-1vSMW nt1pQzuv
1/1  +  [icon] [icon]  Tilix: broberts@cis106: ~  [search] [menu] [back] [forward] [close]
1: broberts@cis106: ~  [close]
broberts@cis106:~$ bash ~/scripts/hello.sh
hello world
I am learning Linux
This is my first shell script
broberts@cis106:~$
```

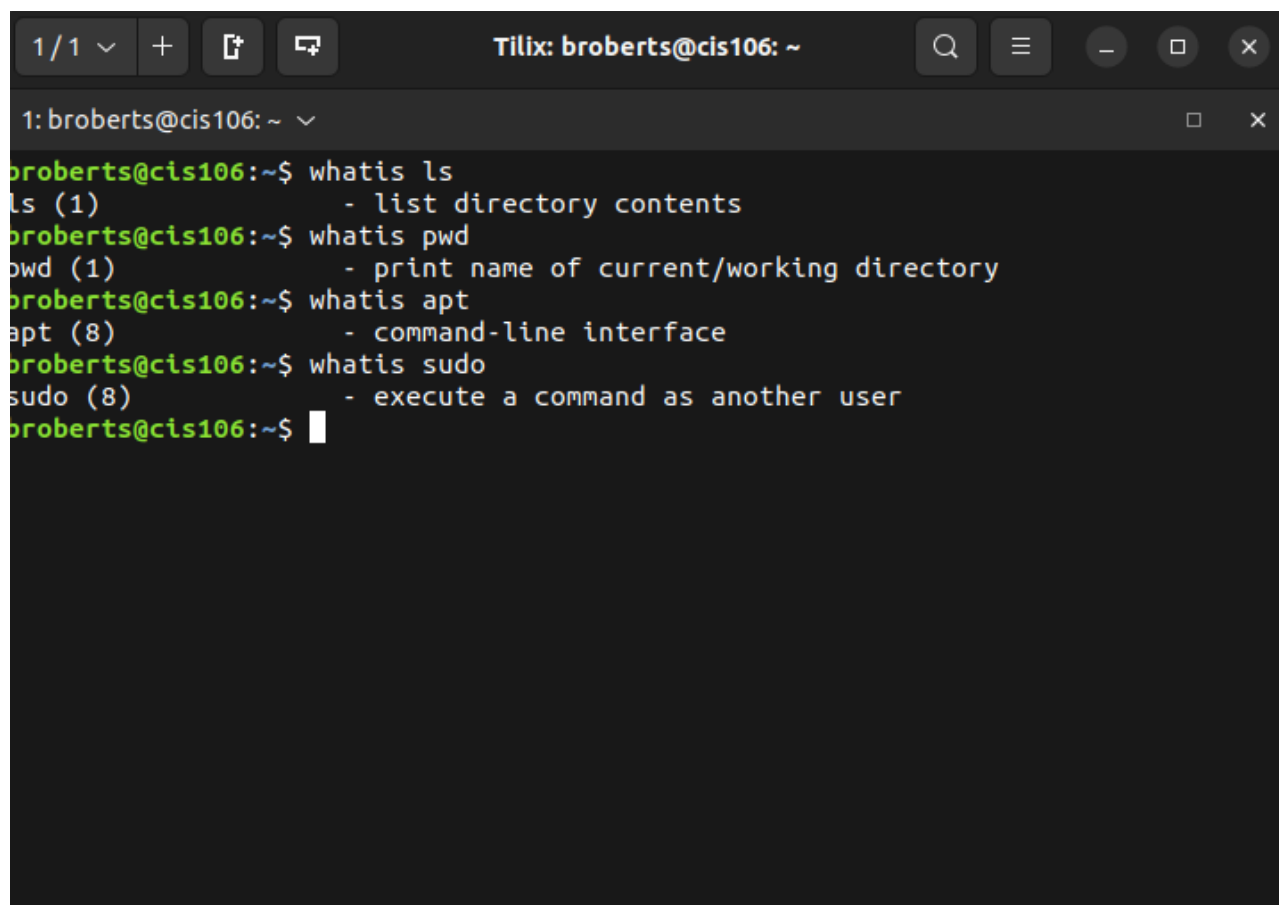
Practice 5: Using man



```
1: broberts@cis106: ~  
Linux  
broberts@cis106:~$ uname -n  
cis106  
broberts@cis106:~$ uname -i0  
uname: invalid option -- '0'  
Try 'uname --help' for more information  
.  
broberts@cis106:~$ uname -io  
x86_64 GNU/Linux  
broberts@cis106:~$ man date  
broberts@cis106:~$ man df  
broberts@cis106:~$ man free  
broberts@cis106:~$ man clear  
broberts@cis106:~$ man history  
broberts@cis106:~$ free --giga  
              total        used  
free      shared buff/cache   availab  
le  
Mem:           4          1  
0             0          1  
1  
Swap:          4          0  
3  
broberts@cis106:~$
```

```
2: broberts@cis106: ~  
UNAME(1)      User Commands      UNAME(1)  
  
NAME  
      uname - print system informa-  
tion  
  
SYNOPSIS  
      uname [OPTION]...  
  
DESCRIPTION  
      Print certain system informa-  
tion.  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  
  
1 23% (press h for help or q to quit)
```

Practice 6: Using the help option



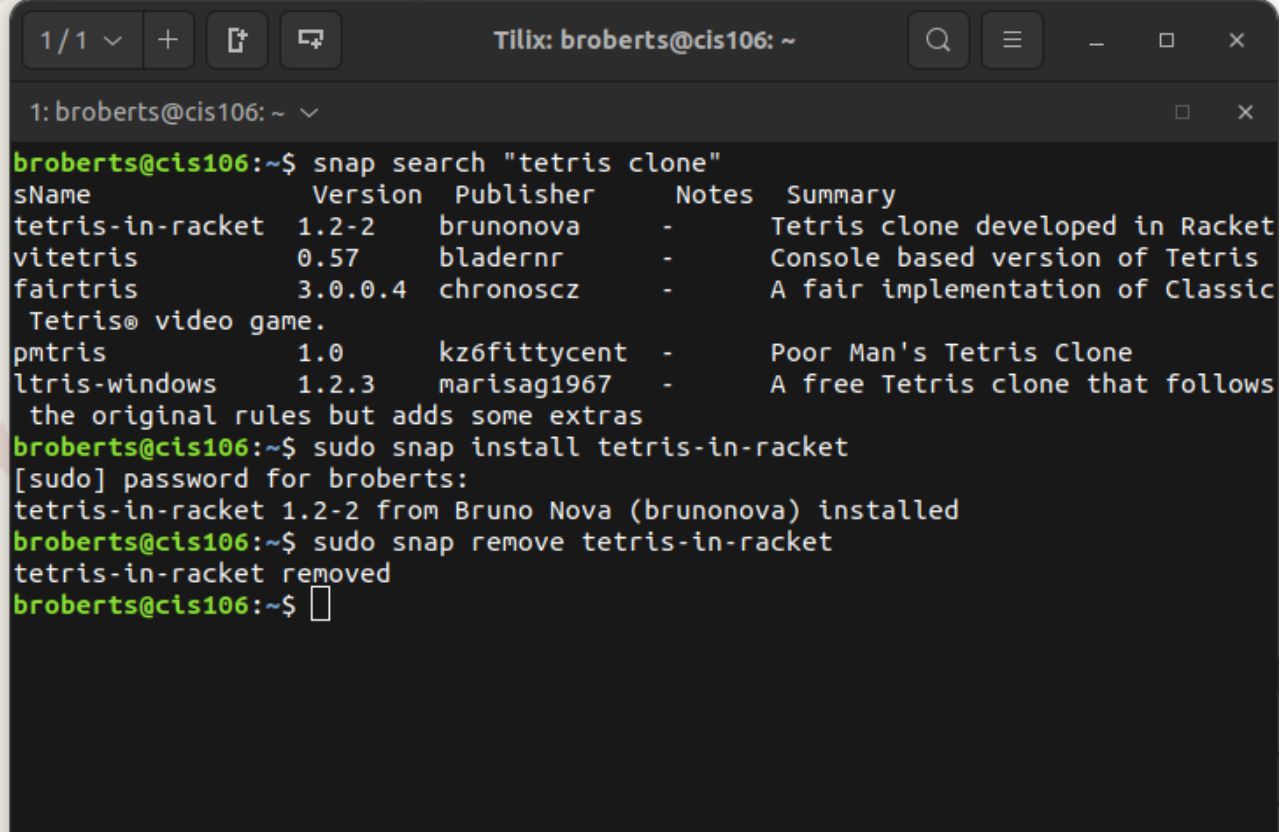
```
1: broberts@cis106: ~  
broberts@cis106:~$ whatis ls  
ls (1) - list directory contents  
broberts@cis106:~$ whatis pwd  
pwd (1) - print name of current/working directory  
broberts@cis106:~$ whatis apt  
apt (8) - command-line interface  
broberts@cis106:~$ whatis sudo  
sudo (8) - execute a command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

A screenshot of a terminal window titled "Tilix: broberts@cis106: ~". The terminal shows a series of tar commands and their explanations. The prompt is "broberts@cis106:~\$".

```
1: broberts@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/t  
o/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>  
broberts@cis106:~$
```

The screenshot shows a terminal window with a dark background. The title bar at the top reads 'Tilix: broberts@cis106: ~'. The terminal is split into two panes. The left pane, titled '1: broberts@cis106: ~', displays a game menu with options: '-> Play! (normal version)', 'Play! (harder version)', 'View highscores', 'Customize keys', and 'Quit'. To the right of the menu, there are labels 'ore:', 'nes:', and 'vel:' in red, green, and blue respectively. The right pane, titled '2: broberts@cis106: ~', shows the output of a command to remove packages. It lists several packages that will be removed, including 'bastet*', and asks for confirmation to continue. The prompt 'broberts@cis106:~\$' is visible at the bottom of the right pane.

Practice 3: Installing and removing snaps



A terminal window titled "Tilix: broberts@cis106: ~" showing a series of commands and their outputs. The user searches for "tetris clone" snaps, then installs "tetris-in-racket", and finally removes it. The terminal output is as follows:

```
broberts@cis106:~$ snap search "tetris clone"
sName          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
broberts@cis106:~$ sudo snap install tetris-in-racket
[sudo] password for broberts:
tetris-in-racket 1.2-2 from Bruno Nova (brunonova) installed
broberts@cis106:~$ sudo snap remove tetris-in-racket
tetris-in-racket removed
broberts@cis106:~$
```