

# Week Report 3

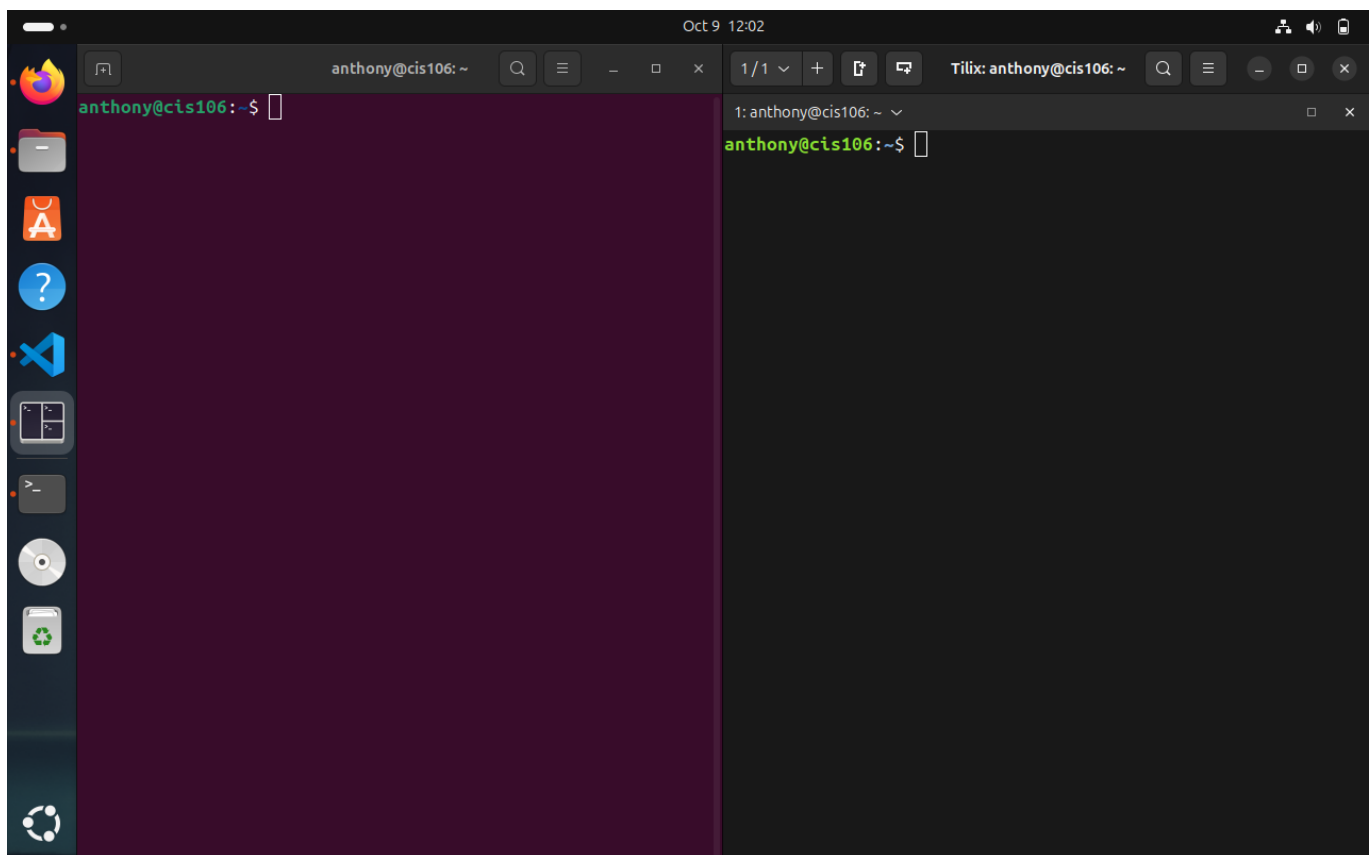
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## Completed work for week 3

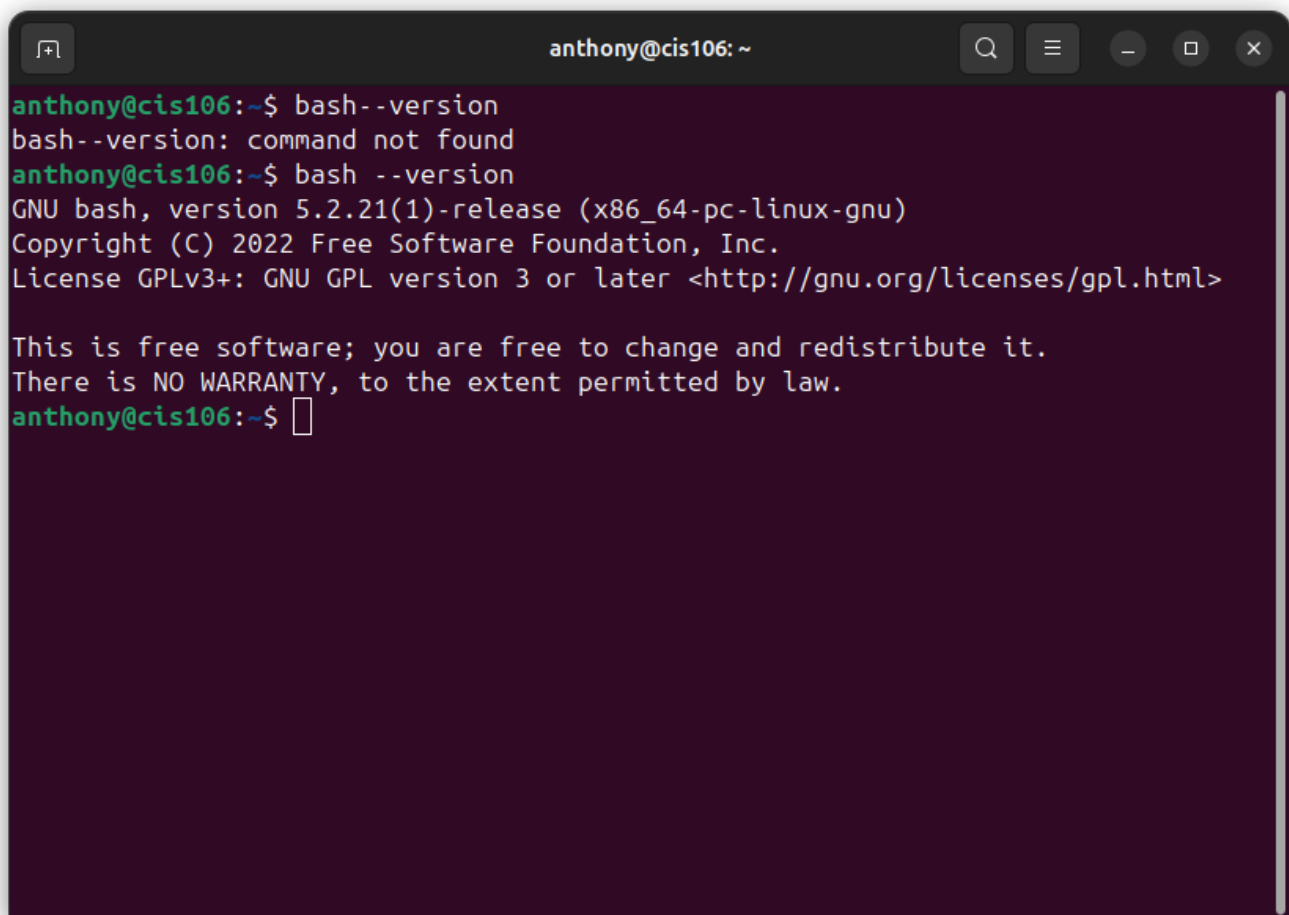
- [lab3.md](#)
- [notes3](#)

## Practice

```
### Practice 1
```



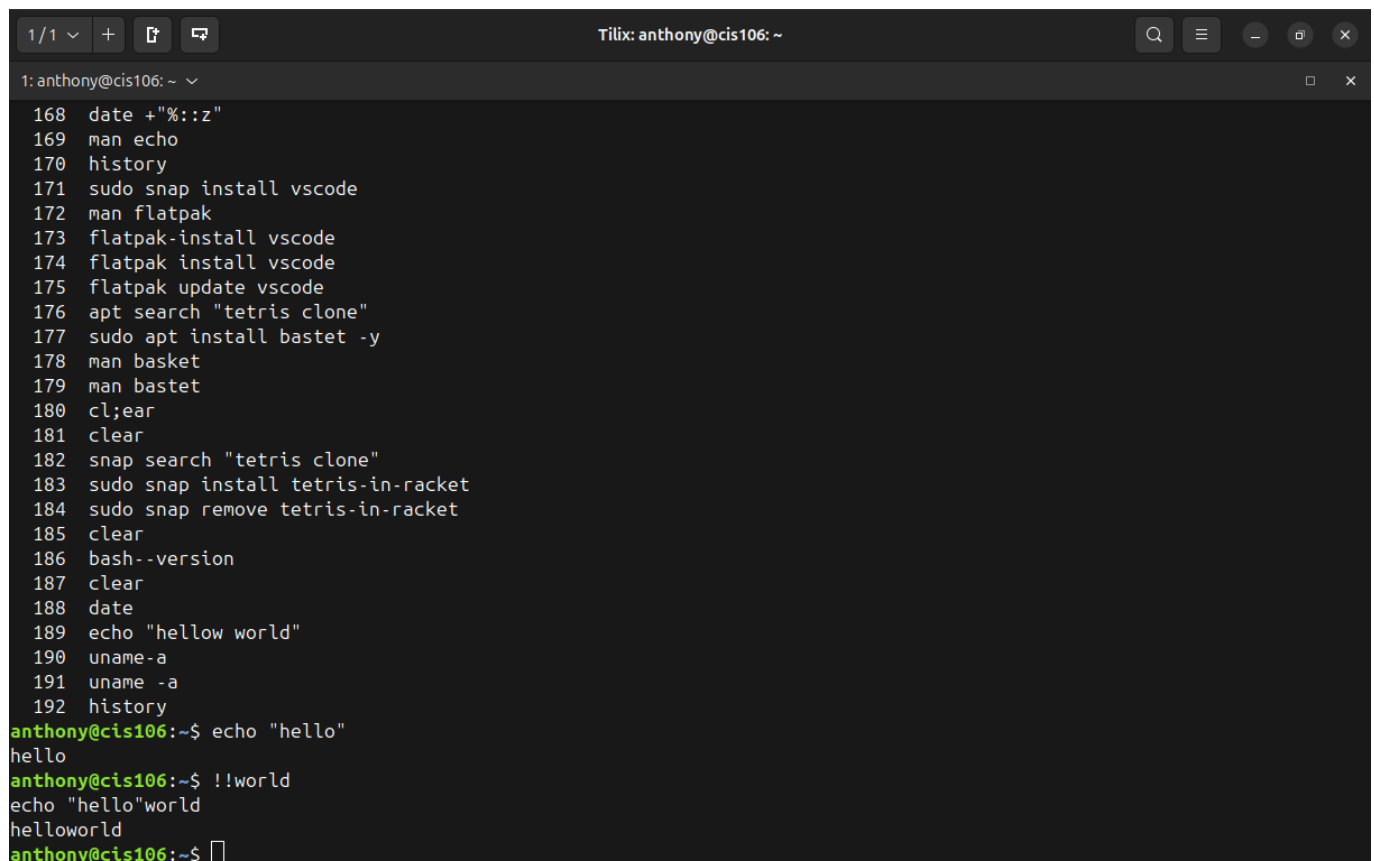
```
### Practice 2
```

A terminal window titled 'anthony@cis106: ~' with standard window controls. The user enters 'bash--version', which results in 'bash--version: command not found'. Then the user enters 'bash --version', which displays the GNU bash version 5.2.21(1)-release (x86\_64-pc-linux-gnu), copyright information for 2022, and the GPL license. It also includes a message about free software and warranty.

```
anthony@cis106:~$ bash--version
bash--version: command not found
anthony@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.
anthony@cis106:~$
```

### ### Practice 3

A terminal window titled 'Tilix: anthony@cis106: ~' with standard window controls. It shows a list of 192 commands, likely from a script, including date, echo, history, sudo snap install, man, flatpak, apt search, and clear. The list ends with 'echo "hello"', which is followed by the output 'hello'. The next command is '!!world', which is followed by the output 'helloworld'. The prompt returns to 'anthony@cis106:~\$' with a cursor.

```
1/1 + [ ] [ ]
Tilix: anthony@cis106: ~
1: anthony@cis106: ~
168 date +"%:::z"
169 man echo
170 history
171 sudo snap install vscode
172 man flatpak
173 flatpak-install vscode
174 flatpak install vscode
175 flatpak update vscode
176 apt search "tetris clone"
177 sudo apt install bastet -y
178 man basket
179 man bastet
180 cl;ear
181 clear
182 snap search "tetris clone"
183 sudo snap install tetris-in-racket
184 sudo snap remove tetris-in-racket
185 clear
186 bash--version
187 clear
188 date
189 echo "hellow world"
190 uname-a
191 uname -a
192 history
anthony@cis106:~$ echo "hello"
hello
anthony@cis106:~$ !!world
echo "hello"world
helloworld
anthony@cis106:~$
```

### ### Practice 4

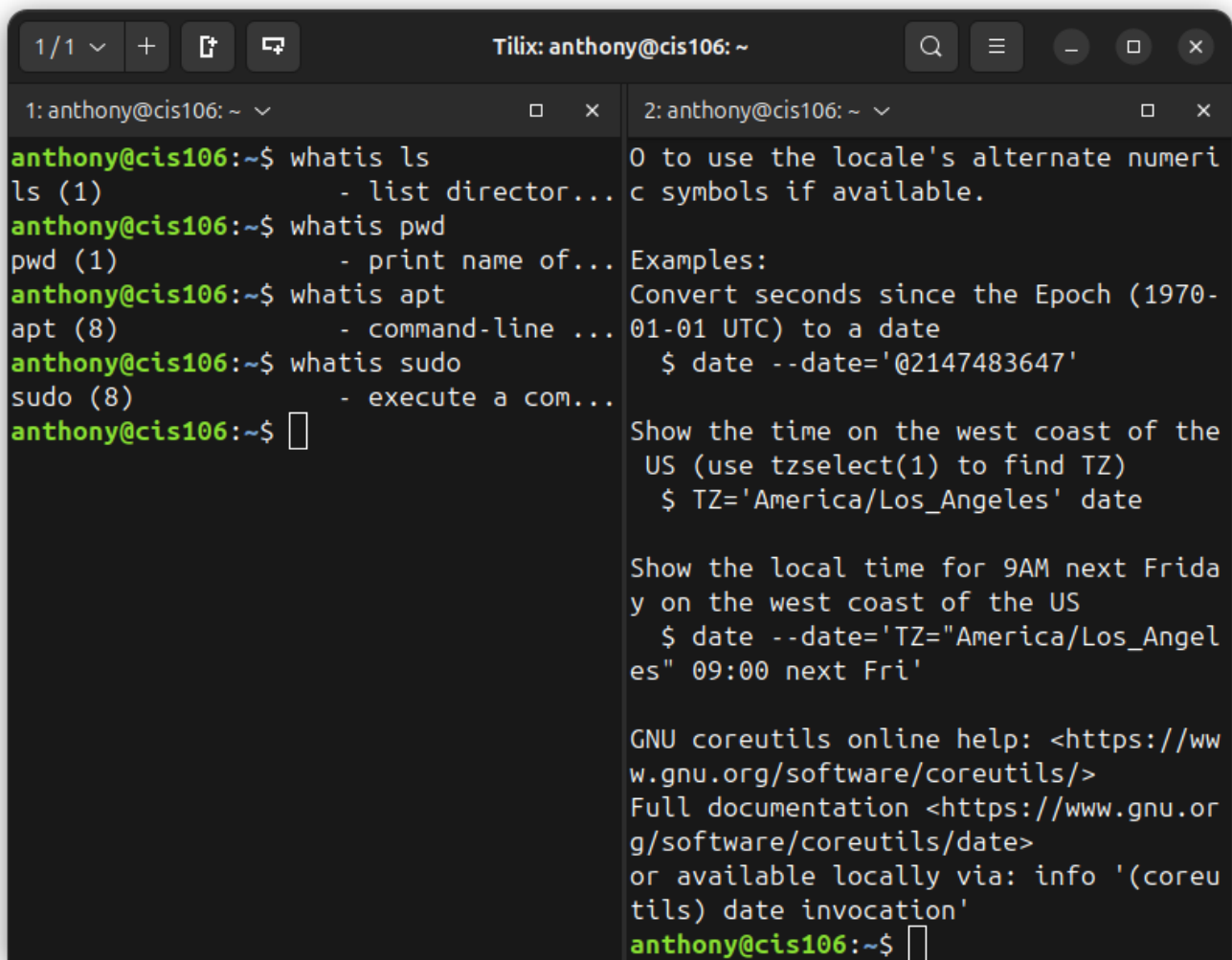
```
1/1 + [ ] [ ] Tilix: anthony@cis106: ~
1: anthony@cis106: ~
anthony@cis106:~$ bash ~/scripts/hello.sh
Hello World
I am learning linux
/home/anthony/scripts/hello.sh: line 4: unexpected EOF while looking for matching `''
anthony@cis106:~$ bash ~/scripts/hello.sh
Hello World
I am learning linux
/home/anthony/scripts/hello.sh: line 4: unexpected EOF while looking for matching `''
anthony@cis106:~$ bash ~/scripts/hello.sh
Hello World
I am learning linux
/home/anthony/scripts/hello.sh: line 4: unexpected EOF while looking for matching `''
anthony@cis106:~$ bash ~/scripts/hello.sh
Hello World
I am learning linux
This is my first shell script
anthony@cis106:~$
```

### Practice 5

```
1/1 + [ ] [ ] Tilix: anthony@cis106: ~
1: anthony@cis106: ~
anthony@cis106:~$ uname -s
Linux
anthony@cis106:~$ uname -n
cis106
anthony@cis106:~$ uname -io
x86_64 GNU/Linux
anthony@cis106:~$ uname -io
x86_64 GNU/Linux
anthony@cis106:~$ uname -s
uname-s: command not found
anthony@cis106:~$ uname -s
Linux
anthony@cis106:~$ uname -n
cis106
anthony@cis106:~$ uname -io
uname: invalid option -- '0'
Try 'uname --help' for more information.
anthony@cis106:~$ uname -io
x86_64 GNU/Linux
anthony@cis106:~$ free --giga
              total        used        free      shared  buff/cache   available
Mem:           4          2          0           0           1           1
Swap:          4          0          3
anthony@cis106:~$
```

```
2: anthony@cis106: ~
HI...Y(Library Functions ManHI...Y(3)
NAME
    history - GNU History Library
COPYRIGHT
    The GNU History Library is Copyright (C) 1989-2020 by the Free Software Foundation, Inc.
DESCRIPTION
    Many programs read input from the user a line at a time. The GNU History library is able to keep track of those lines, associate arbitrary data with each line, and utilize information from previous lines in composing new ones.
HISTORY EXPANSION
    The history library supports a history expansion feature that is identical to the history expansion in bash. This section describes what syntax features are available.
    History expansions introduce words from the history list
ne 1 (press h for help or q to quit)
```

### Practice 6



```
1: anthony@cis106: ~  
anthony@cis106:~$ whatis ls  
ls (1)          - list director...  
anthony@cis106:~$ whatis pwd  
pwd (1)         - print name of...  
anthony@cis106:~$ whatis apt  
apt (8)         - command-line ...  
anthony@cis106:~$ whatis sudo  
sudo (8)        - execute a com...  
anthony@cis106:~$  
  
2: anthony@cis106: ~  
0 to use the locale's alternate numeri  
c symbols if available.  
  
Examples:  
Convert seconds since the Epoch (1970-  
01-01 UTC) to a date  
$ date --date='@2147483647'  
  
Show the time on the west coast of the  
US (use tzselect(1) to find TZ)  
$ TZ='America/Los_Angeles' date  
  
Show the local time for 9AM next Frida  
y on the west coast of the US  
$ date --date='TZ="America/Los_Angel  
es" 09:00 next Fri'  
  
GNU coreutils online help: <https://ww  
w.gnu.org/software/coreutils/>  
Full documentation <https://www.gnu.or  
g/software/coreutils/date>  
or available locally via: info '(coreu  
tils) date invocation'  
anthony@cis106:~$
```

### Practice 7

```

1: anthony@cis106: ~
anthony@cis106:~$ sudo apt install python3-pip
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
python3-pip is already the newest version (24.0+dfsg-1ubuntu1).
The following package was automatically installed and is no longer required:
  libboost-program-options1.83.0
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 56 not upgraded.
anthony@cis106:~$ cheat tar | pygment
Command 'pygment' not found, did you mean:
  command 'pymnt' from deb python3-pymnt (0.3.4+ds-4)
Try: sudo apt install <deb name>

anthony@cis106:~$ cheat tar | pygmentize

```

```

2: anthony@cis106: ~
anthony@cis106:~$

```

### Practice 1 - Managing Software

```

1: anthony@cis106: ~
BASTET(6)          Games Manual          BASTET(6)

NAME
  bastet - Tetris(r) clone with "bastard" block-choosing AI

SYNOPSIS
  bastet

DESCRIPTION
  bastet (short for "bastard tetris") is a Tetris(r) clone which tries to give you the worst possible block. Playing bastet can be a painful experience, especially if you usually make "canyons" and wait for the long I-shaped block.

USAGE
  bastet tries to conform as much as possible to the tetris guidelines. We refer to those for the rules of the game. In the starting menu, you can configure the key bindings; the default ones are:

  DOWN  moves the tetromino down (one single step)
  LEFT  moves the tetromino left
  RIGHT moves the tetromino right
  SPACE rotates CW

manual page bastet(6) line 1 (press h for help or q to quit)

```

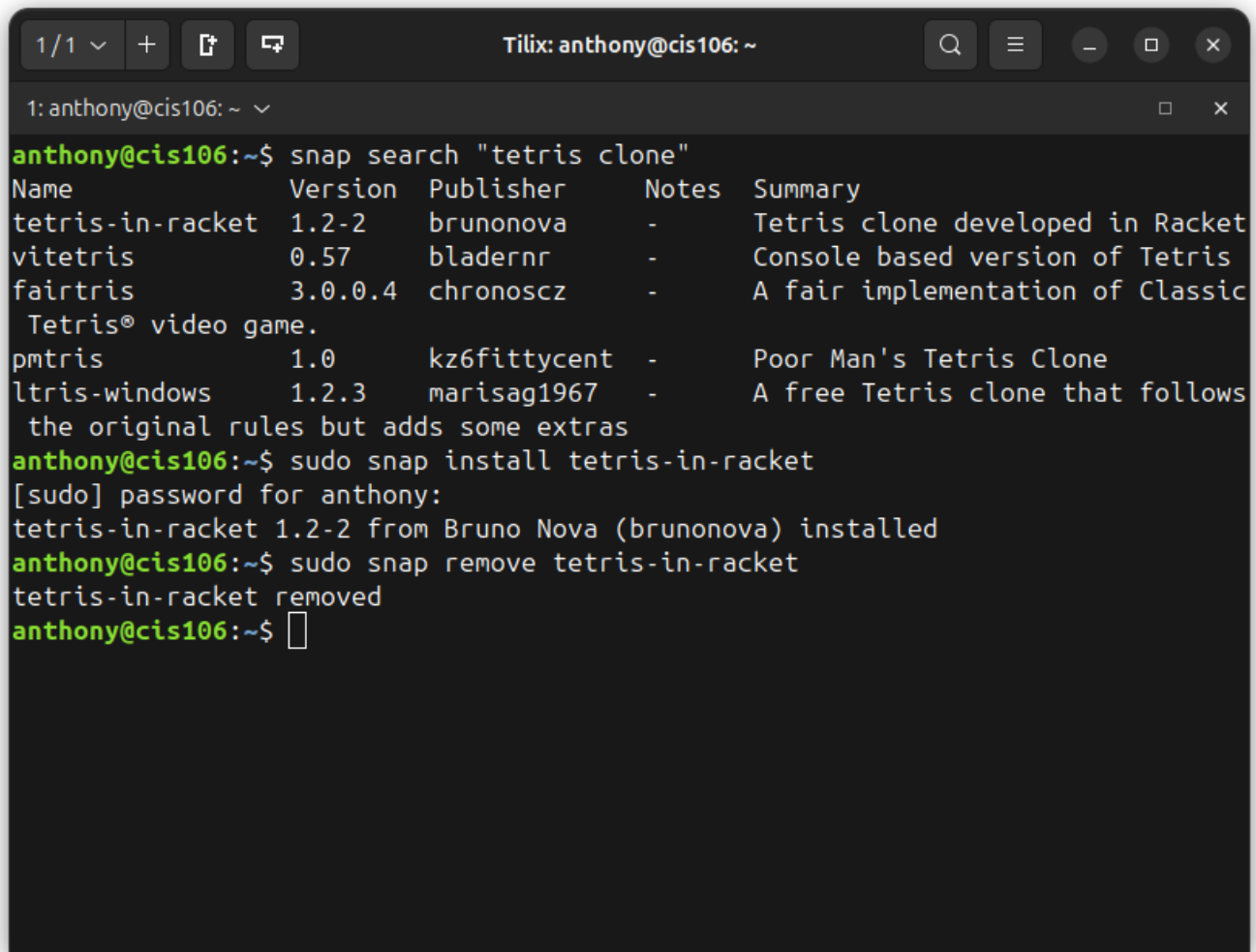
```

2: anthony@cis106: ~
After this operation, 214 kB disk space will be freed.
Do you want to continue? [Y/n] Y
(Reading database ... 166279 files and directories currently installed.)
Removing bastet (0.43-7build1) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for desktop-file-utils (0.27-2build1) ...

anthony@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 56 not upgraded.
After this operation, 0 B of additional disk space will be used.
Do you want to continue? [Y/n] Y
(Reading database ... 166269 files and directories currently installed.)
Purging configuration files for bastet (0.43-7build1) ...
anthony@cis106:~$

```

## ### Practice 3 - Managing Software



```
1/1  +  [copy] [paste]  Tilix: anthony@cis106: ~  [search] [menu] [back] [forward] [close]
1: anthony@cis106: ~  [close]
anthony@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
anthony@cis106:~$ sudo snap install tetris-in-racket
[sudo] password for anthony:
tetris-in-racket 1.2-2 from Bruno Nova (brunonova) installed
anthony@cis106:~$ sudo snap remove tetris-in-racket
tetris-in-racket removed
anthony@cis106:~$
```