

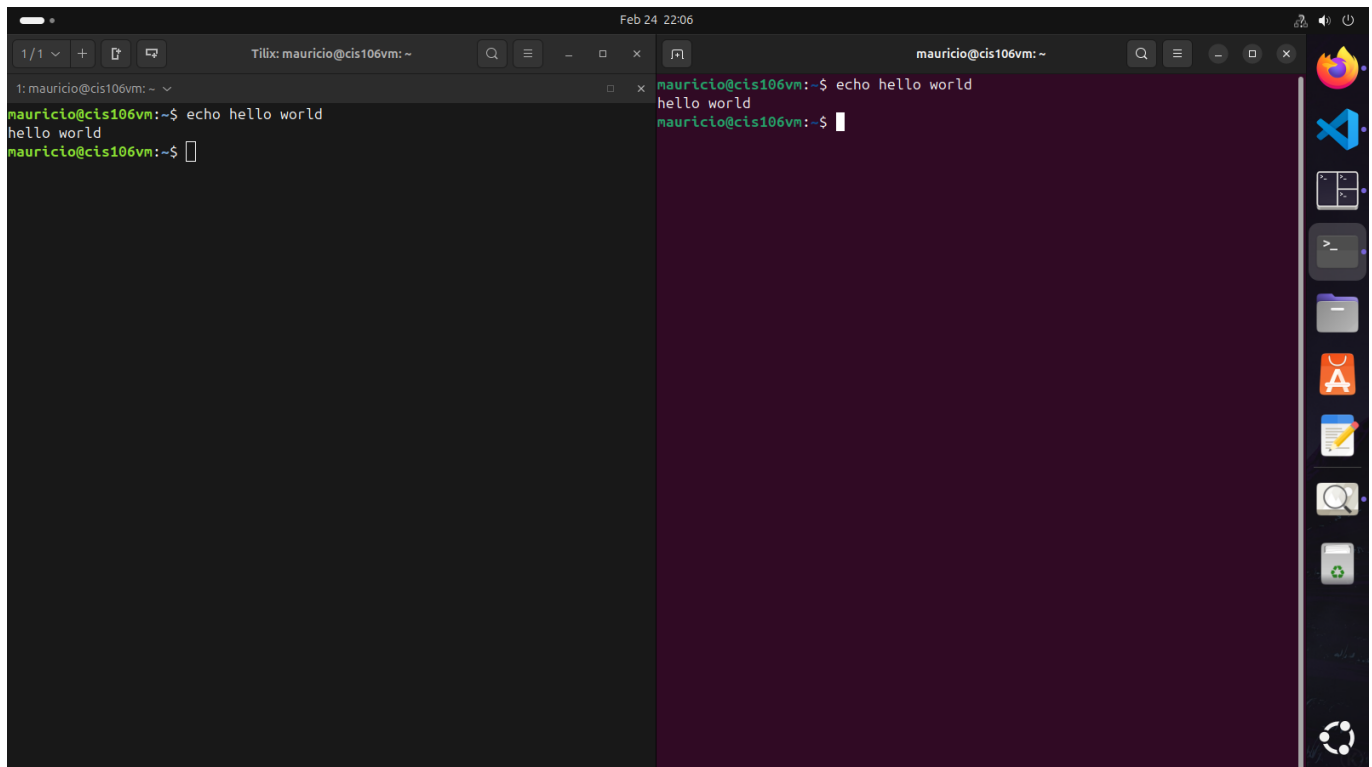
Week Report 3

Completed work for week 3

- [Lab3.md](#)
- [Notes 3](#)

Practice

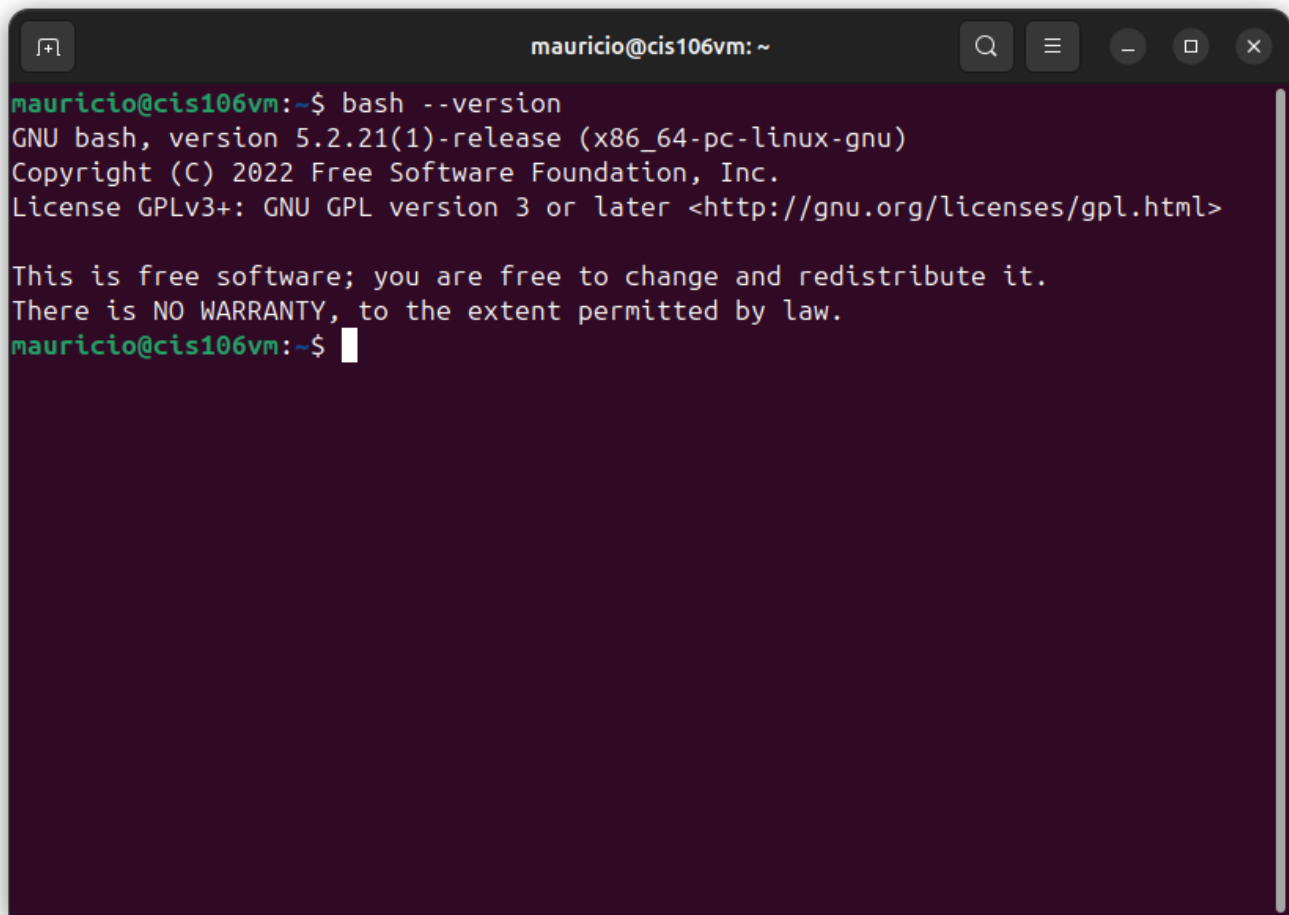
Practice 1



The screenshot shows a terminal window with a dark background. The prompt is `mauricio@cis106vm: ~`. The user has entered the command `echo hello world`, and the output is `hello world`. The terminal window is titled `Tilix: mauricio@cis106vm: ~`. The system clock at the top right indicates `Feb 24 22:06`. The terminal window is part of a desktop environment with a sidebar on the right containing various application icons.

```
1: mauricio@cis106vm: ~  
mauricio@cis106vm:~$ echo hello world  
hello world  
mauricio@cis106vm:~$
```

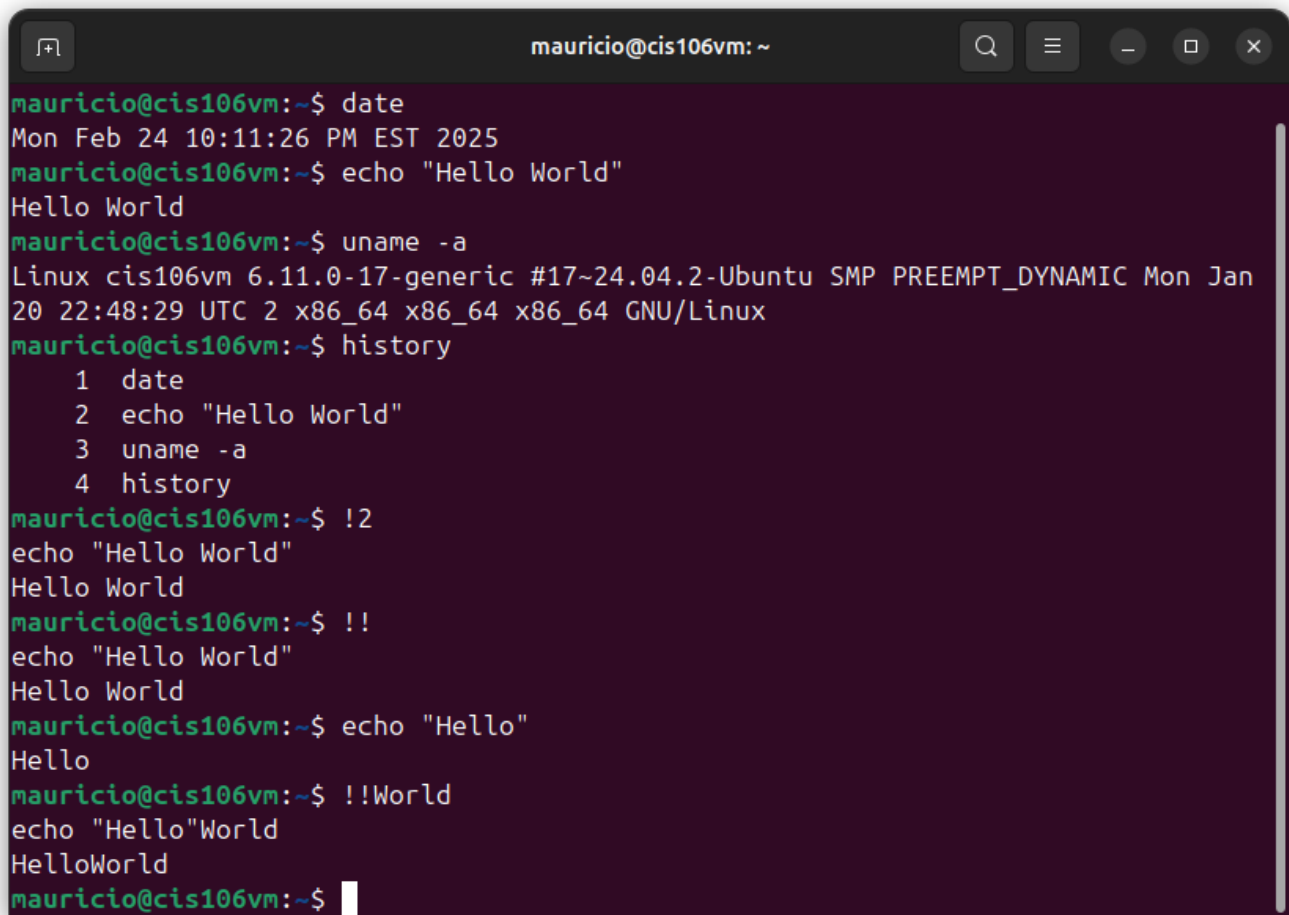
Practice 2

A terminal window titled 'mauricio@cis106vm: ~' with standard window controls. The terminal output shows the command 'bash --version' and its output: '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.', and 'There is NO WARRANTY, to the extent permitted by law.' The prompt 'mauricio@cis106vm:~\$' is followed by a cursor.

```
mauricio@cis106vm:~$ 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.
mauricio@cis106vm:~$
```

Practice 3



```
mauricio@cis106vm: ~  
mauricio@cis106vm:~$ date  
Mon Feb 24 10:11:26 PM EST 2025  
mauricio@cis106vm:~$ echo "Hello World"  
Hello World  
mauricio@cis106vm:~$ uname -a  
Linux cis106vm 6.11.0-17-generic #17~24.04.2-Ubuntu SMP PREEMPT_DYNAMIC Mon Jan  
20 22:48:29 UTC 2 x86_64 x86_64 x86_64 GNU/Linux  
mauricio@cis106vm:~$ history  
  1  date  
  2  echo "Hello World"  
  3  uname -a  
  4  history  
mauricio@cis106vm:~$ !2  
echo "Hello World"  
Hello World  
mauricio@cis106vm:~$ !!  
echo "Hello World"  
Hello World  
mauricio@cis106vm:~$ echo "Hello"  
Hello  
mauricio@cis106vm:~$ !!World  
echo "Hello"World  
HelloWorld  
mauricio@cis106vm:~$
```

Practice 4

```

mauricio@cis106vm: ~
mauricio@cis106vm:~$ bash ~/scripts/hello.sh
Hello world!
I am learning linux
This is my first shell script
    Mary likes potatoes
But Peter likes rice.
    Hey Yo!
mauricio@cis106vm:~$

```

Practice 5

```

1/1 v + [ ] [ ]
Tilix: mauricio@cis106vm: ~
1: mauricio@cis106vm: ~
mauricio@cis106vm:~$ uname -sno
Linux cis106vm GNU/Linux
mauricio@cis106vm:~$ uname -s
Linux
mauricio@cis106vm:~$ uname -io
x86_64 GNU/Linux
mauricio@cis106vm:~$ uname -s
Linux
mauricio@cis106vm:~$ uname -i0
uname: invalid option -- '0'
Try 'uname --help' for more information.
mauricio@cis106vm:~$ man date
mauricio@cis106vm:~$ free --giga
      total        used        free      shared  buff/cache   available
Mem:           4            2            0            0             1
Swap:           4            0            3
mauricio@cis106vm:~$ man df
mauricio@cis106vm:~$ man free
mauricio@cis106vm:~$ man clear
mauricio@cis106vm:~$ man history
mauricio@cis106vm:~$

2: mauricio@cis106vm: ~
-o, --operating-system
    print the operating system

--help display this help and exit

--version
    output version information and exit

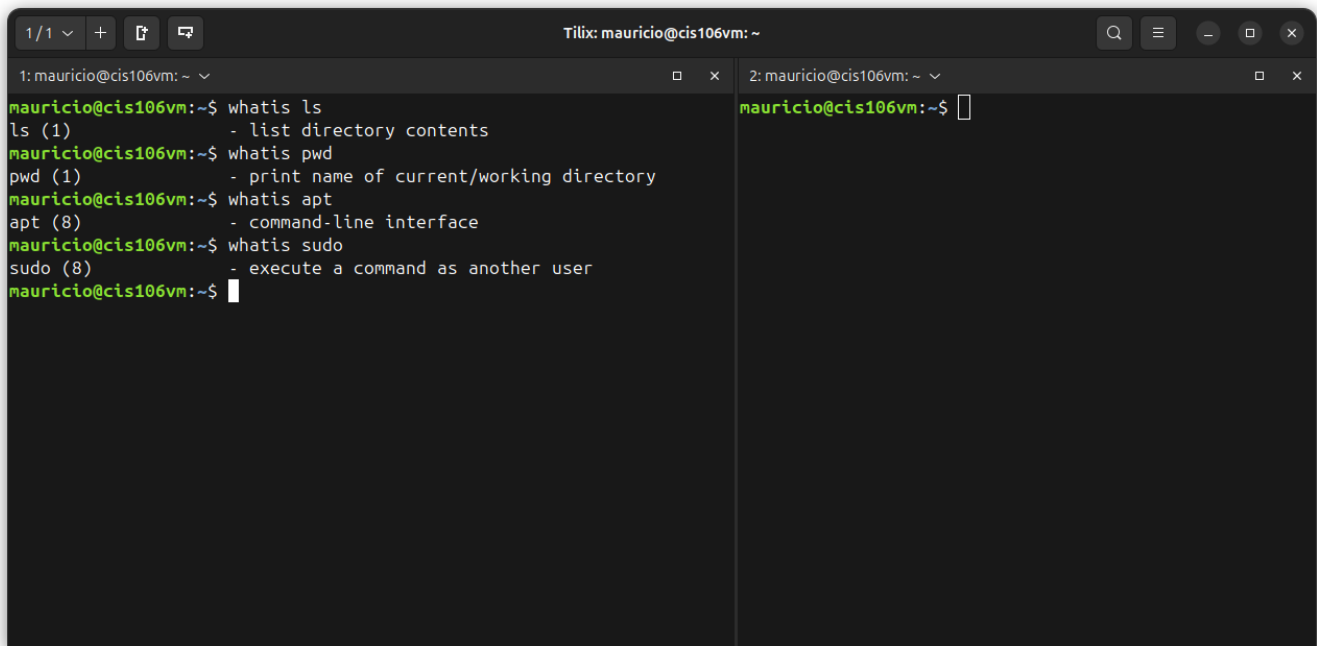
AUTHOR
    Written by David MacKenzie.

REPORTING BUGS
    GNU coreutils online help: <https://www.gnu.org/
software/coreutils/>
    Report any translation bugs to <https://transla
tion-project.org/team/>

COPYRIGHT
    Copyright © 2023 Free Software Foundation, Inc.
    License GPLv3+: GNU GPL version 3 or
ame(1) line 38/71 77% (press h for help or q to quit)

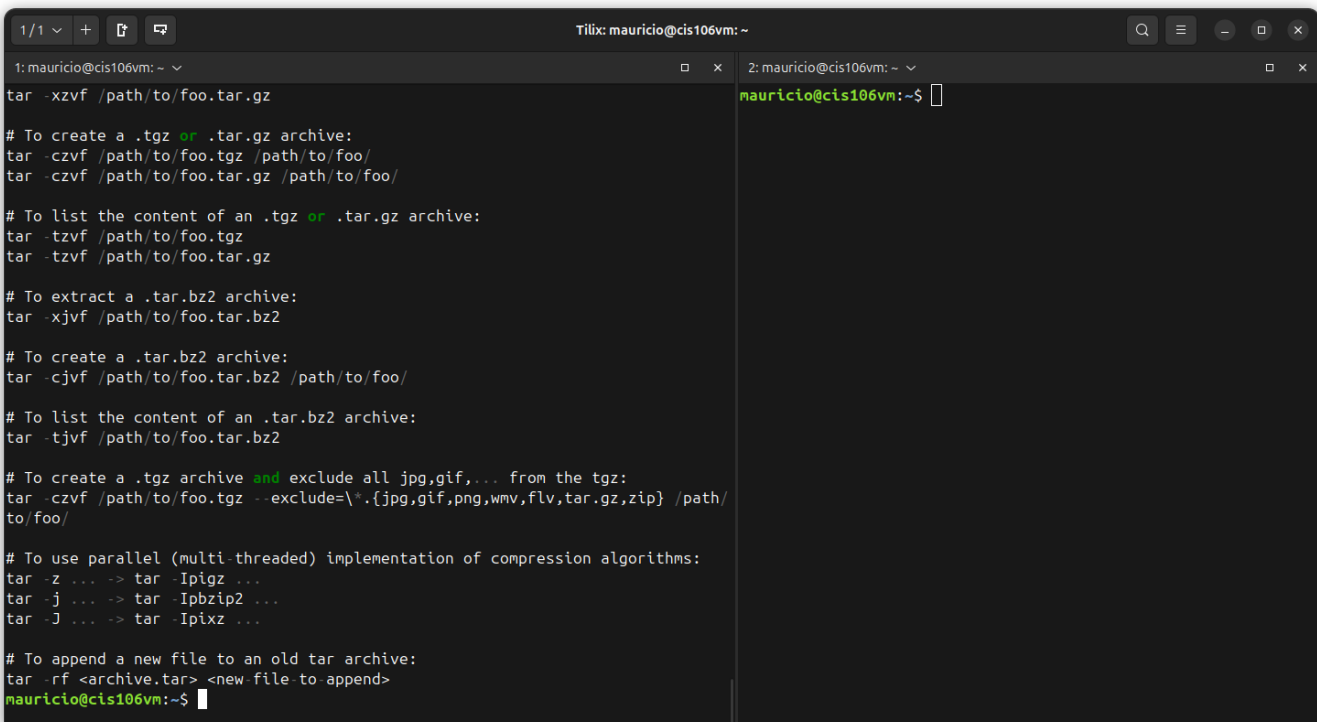
```

Practice 6



```
Tilix: mauricio@cis106vm: ~  
1: mauricio@cis106vm: ~  
mauricio@cis106vm:~$ whatis ls  
ls (1) - list directory contents  
mauricio@cis106vm:~$ whatis pwd  
pwd (1) - print name of current/working directory  
mauricio@cis106vm:~$ whatis apt  
apt (8) - command-line interface  
mauricio@cis106vm:~$ whatis sudo  
sudo (8) - execute a command as another user  
mauricio@cis106vm:~$  
2: mauricio@cis106vm: ~  
mauricio@cis106vm:~$
```

Practice 7



```
Tilix: mauricio@cis106vm: ~  
1: mauricio@cis106vm: ~  
tar -xzf /path/to/foo.tar.gz  
  
# To create a .tgz or .tar.gz archive:  
tar -czvf /path/to/foo.tgz /path/to/foo/  
tar -czvf /path/to/foo.tar.gz /path/to/foo/  
  
# To list the content of an .tgz or .tar.gz archive:  
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>  
mauricio@cis106vm:~$  
2: mauricio@cis106vm: ~  
mauricio@cis106vm:~$
```

Practice 1 Managing Software

The screenshot shows a terminal window with two panes. The left pane displays the output of the command `sudo apt purge bastet`. The right pane shows a Tetris game interface with a grid, a next block preview, and a score display.

```

1: mauricio@cis106vm: ~
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 4 not upgraded.
After this operation, 214 kB disk space will be freed.
Do you want to continue? [Y/n] y
(Reading database ... 228606 files and directories currently instal
led.)
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) ...
mauricio@cis106vm:~$ 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 4 not upgraded.
After this operation, 0 B of additional disk space will be used.
Do you want to continue? [Y/n] y
(Reading database ... 228596 files and directories currently instal
led.)
Purging configuration files for bastet (0.43-7build1) ...
mauricio@cis106vm:~$

**Normal difficulty**
nou          100
No one played yet  0
No one played yet  0
No one played yet  0
No one played yet  0
No one played yet  0
No one played yet  0
No one played yet  0
No one played yet  0
No one played yet  0
No one played yet  0
re: 100
es: 1
el: 0

```

Practice 3 Managing Software

The screenshot shows a terminal window with two panes. The left pane displays the output of the command `sudo apt install ./Downloads/code_1.97.2-1739406807_amd64.deb`. The right pane shows the output of the command `sudo snap search "tetris clone"`, which lists several Tetris clones available on Snap. The user then installs the `tetris-in-racket` snap package.

```

1: mauricio@cis106vm: ~
mauricio@cis106vm:~$ sudo apt install ./Downloads/code_1.97.2-1739406807_amd64.deb
[sudo] password for mauricio:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Note, selecting 'code' instead of './Downloads/code_1.97.2-1739406807_amd64.deb'
code is already the newest version (1.97.2-1739406807).
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 4 not upgraded.
mauricio@cis106vm:~$

2: mauricio@cis106vm: ~
mauricio@cis106vm:~$ sudo snap search "tetris clone"
[sudo] password for mauricio:
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
mauricio@cis106vm:~$ sudo snap install
error: the required argument '<snap>' (at least 1 argument) was not provided
mauricio@cis106vm:~$ sudo snap install
error: the required argument '<snap>' (at least 1 argument) was not provided
mauricio@cis106vm:~$ sudo snap install tetris-in-racket
tetris-in-racket 1.2-2 from Bruno Nova (brunonova) installed
mauricio@cis106vm:~$ sudo snap remove tetris-in-racket
tetris-in-racket removed
mauricio@cis106vm:~$

```