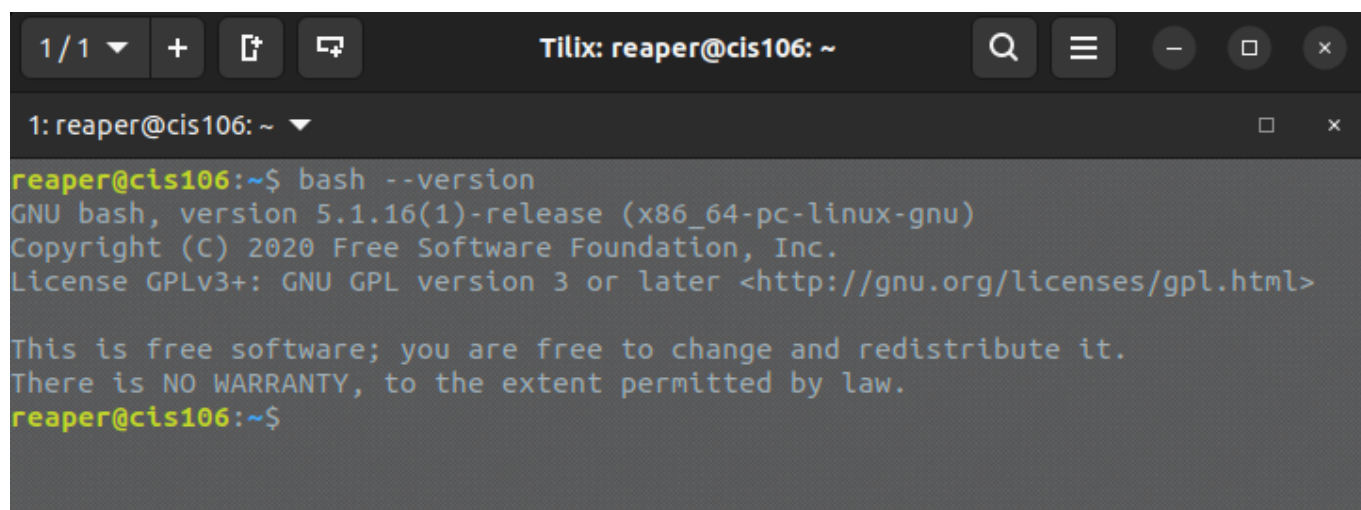


Week Report 3

Completed work for week 3

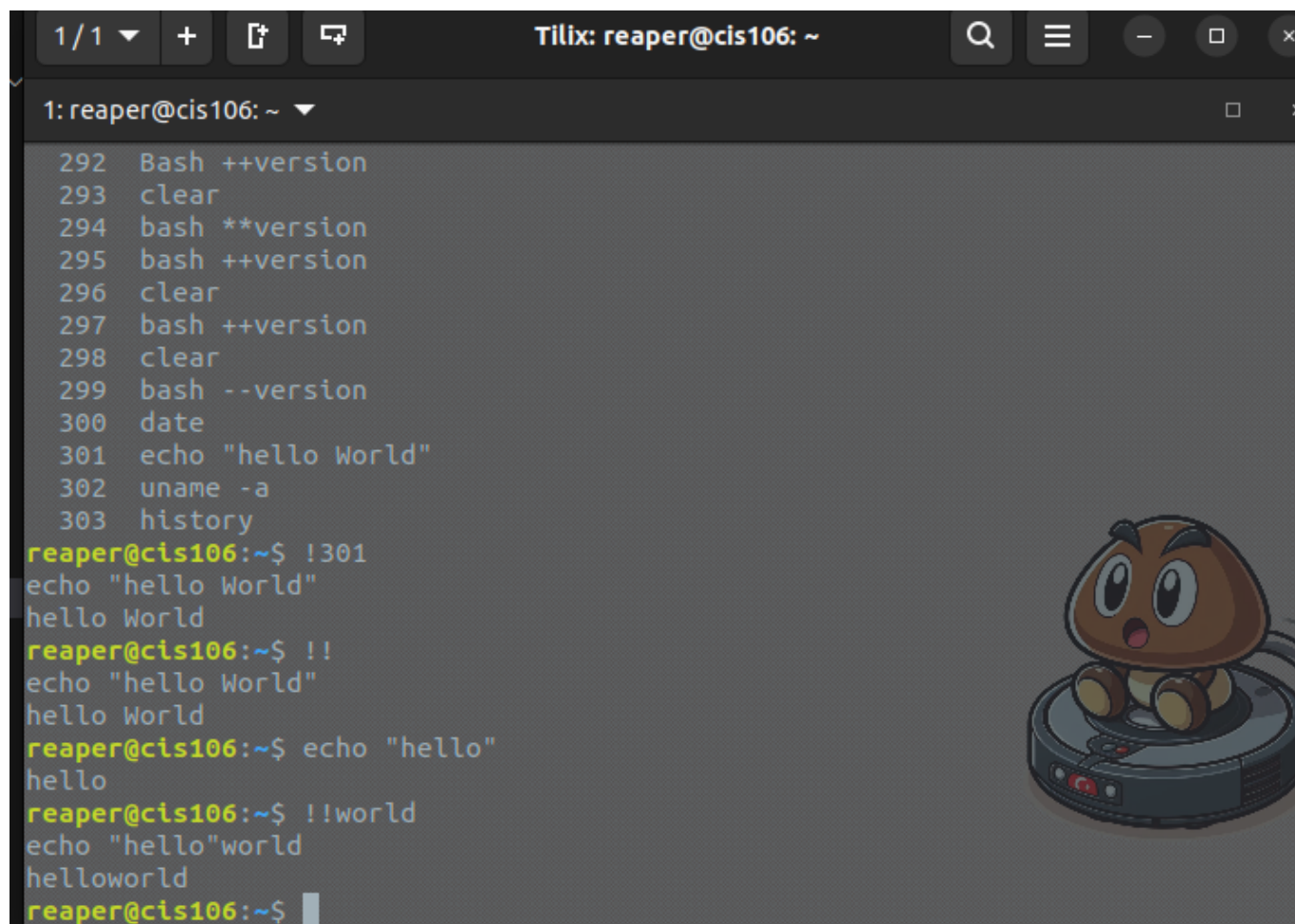
- [lab 3](#)
- [Notes 1](#)

Practice 2: Accessing the Bash Shell

A terminal window titled 'Tilix: reaper@cis106: ~' showing the output of the 'bash --version' command. The output displays the GNU bash version 5.1.16(1)-release for x86_64-pc-linux-gnu, along with copyright and license information. The prompt is 'reaper@cis106:~\$' and the cursor is at the end of the line.

```
1/1 ▾ + [ ] [ ] Tilix: reaper@cis106: ~ 🔍 ☰ - □ ×  
1: reaper@cis106: ~ ▾ □ ×  
reaper@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.  
reaper@cis106:~$
```

Practice 3: Using the Command history

A terminal window titled 'Tilix: reaper@cis106: ~' showing a list of command history. The history includes commands like 'bash ++version', 'clear', 'date', 'echo "hello World"', 'uname -a', and 'history'. The prompt is 'reaper@cis106:~\$' and the cursor is at the end of the line. A cartoon character is visible in the bottom right corner of the terminal window.

```
1/1 ▾ + [ ] [ ] Tilix: reaper@cis106: ~ 🔍 ☰ - □ ×  
1: reaper@cis106: ~ ▾ □ ×  
292 Bash ++version  
293 clear  
294 bash **version  
295 bash ++version  
296 clear  
297 bash ++version  
298 clear  
299 bash --version  
300 date  
301 echo "hello World"  
302 uname -a  
303 history  
reaper@cis106:~$ !301  
echo "hello World"  
hello World  
reaper@cis106:~$ !!  
echo "hello World"  
hello World  
reaper@cis106:~$ echo "hello"  
hello  
reaper@cis106:~$ !!world  
echo "hello"world  
helloworld  
reaper@cis106:~$
```

Practice 4: My first shell script

```
1/1 ▾ + [ ] [ ] Tilix: reaper@cis106: ~ 🔍 ☰ - □ ×

1: reaper@cis106: ~ ▾

reaper@cis106:~$ bash ~/scripts/hello.sh
hello world
I am learning linux
This is my first shell script
reaper@cis106:~$
```

Practice 5: Using man

```
1/1 ▾ + [ ] [ ] Tilix: reaper@cis106: ~ 🔍 ☰ - □ ×

1: reaper@cis106: ~ ▾ 2: reaper@cis106: ~ ▾
session sidebar □ × □ ×

reaper@cis106:~$ uname -s
Linux
reaper@cis106:~$ uname -n
cis106
reaper@cis106:~$ uname -io
x86_64 GNU/Linux
reaper@cis106:~$ uname -s
Linux
reaper@cis106:~$ uname -io
x86_64 GNU/Linux
reaper@cis106:~$ uname -io
uname: invalid option -- 'o'
Try 'uname --help' for more information.
reaper@cis106:~$ man date
reaper@cis106:~$ man df
reaper@cis106:~$ man free
reaper@cis106:~$ man clear
reaper@cis106:~$ man history
reaper@cis106:~$ free --giga

              total          used          free
shared  buff/cache  available
Mem:    0           2           1           0
Swap:   0           0           0           3
reaper@cis106:~$

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
    output version informa-
    tion and exit

AUTHOR
    Written by David MacKenzie.

REPORTING BUGS
    GNU coreutils online help:
    <https://www.gnu.org/soft-
    ware/coreutils/>
    Report any translation bugs to
    <https://translationpro-
    ject.org/team/>
line 41/91 74% (press h for help or q to quit)
```

Practice 6: Using help

```
1: reaper@cis106: ~ ▾

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

Practice 7: Using cheat


```
1: reaper@cis106: ~ ▼
Requirement already satisfied: Pygments in /usr/lib/python3/dist-packages (2.11.2)
reaper@cis106:~$ cheat tar | pygmentize
# To extract an uncompressed archive:
tar xvf /path to foo.tar

# To extract a .tar in specified directory:
tar xvf /path to foo.tar -C /path to destination/

# To create an uncompressed archive:
tar cvf /path to foo.tar /path to foo/

# To extract a .tgz or .tar.gz archive:
tar xzvf /path to foo.tgz
tar xzvf /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/

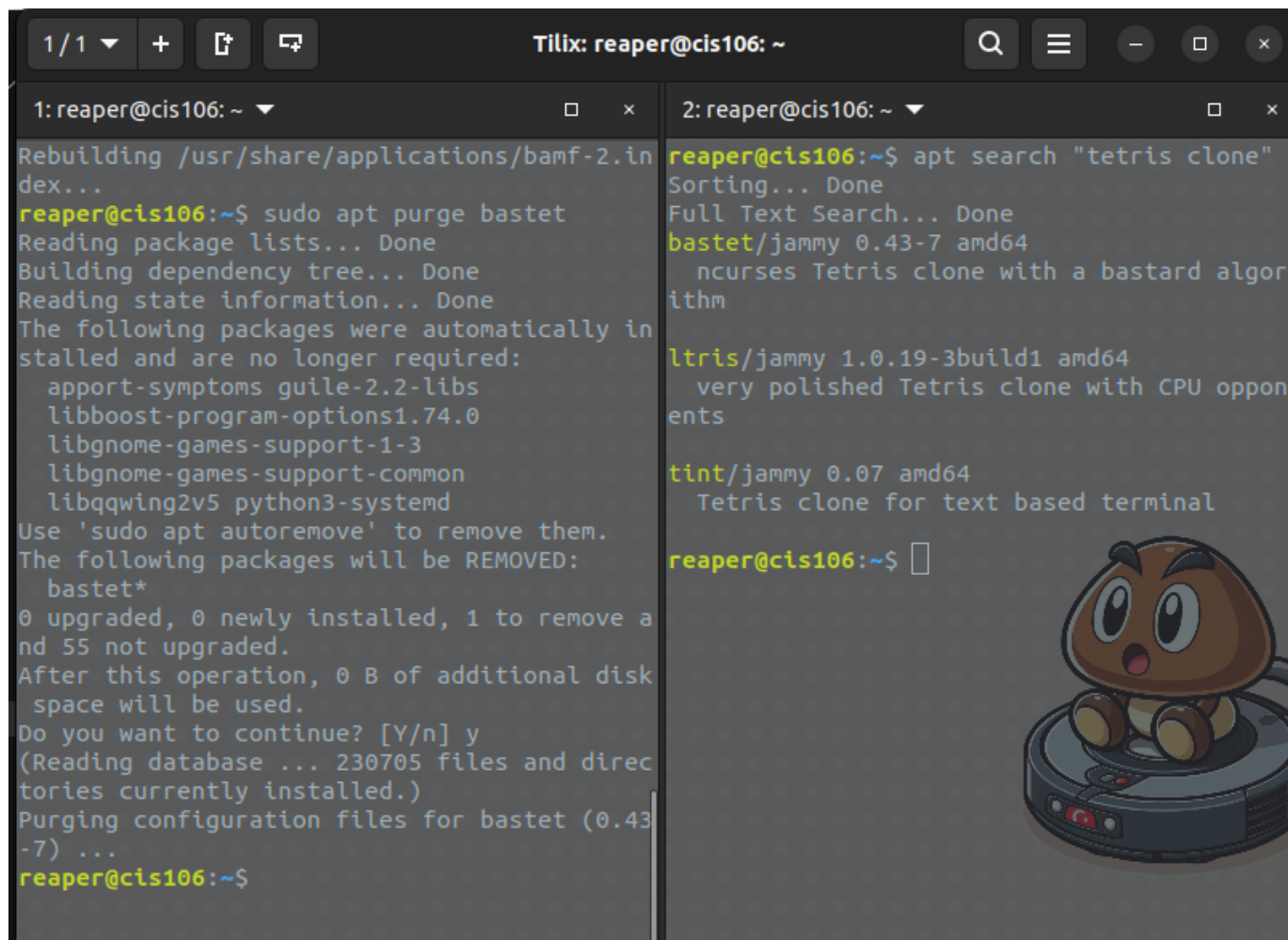
# To list the content of an .tar.bz2 archive:
tar tjvf /path to foo.tar.bz2

# 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
reaper@cis106:~$
```

Practice 1: Managing software



```

1: reaper@cis106: ~
Rebuilding /usr/share/applications/bamf-2.in
dex...
reaper@cis106:~$ sudo apt purge bastet
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically in
stalled 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 a
nd 55 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 direc
tories currently installed.)
Purging configuration files for bastet (0.43
-7) ...
reaper@cis106:~$

2: reaper@cis106: ~
reaper@cis106:~$ apt search "tetris clone"
Sorting... Done
Full Text Search... Done
bastet/jammy 0.43-7 amd64
  ncurses Tetris clone with a bastard algor
ithm

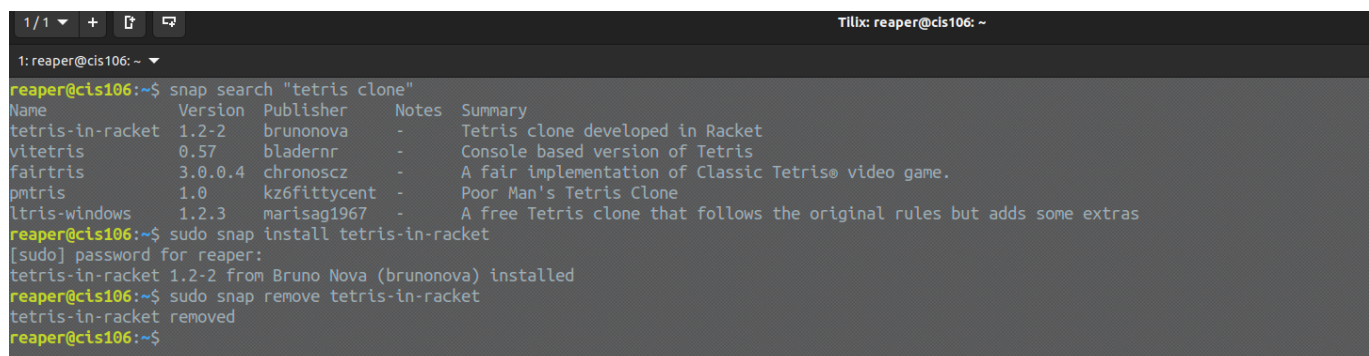
ltris/jammy 1.0.19-3build1 amd64
  very polished Tetris clone with CPU oppon
ents

tint/jammy 0.07 amd64
  Tetris clone for text based terminal

reaper@cis106:~$

```

Practice 3: Installing and removing snaps



```

1: reaper@cis106: ~
reaper@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.
pntris    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
reaper@cis106:~$ sudo snap install tetris-in-racket
[sudo] password for reaper:
tetris-in-racket 1.2-2 from Bruno Nova (brunonova) installed
reaper@cis106:~$ sudo snap remove tetris-in-racket
tetris-in-racket removed
reaper@cis106:~$

```