

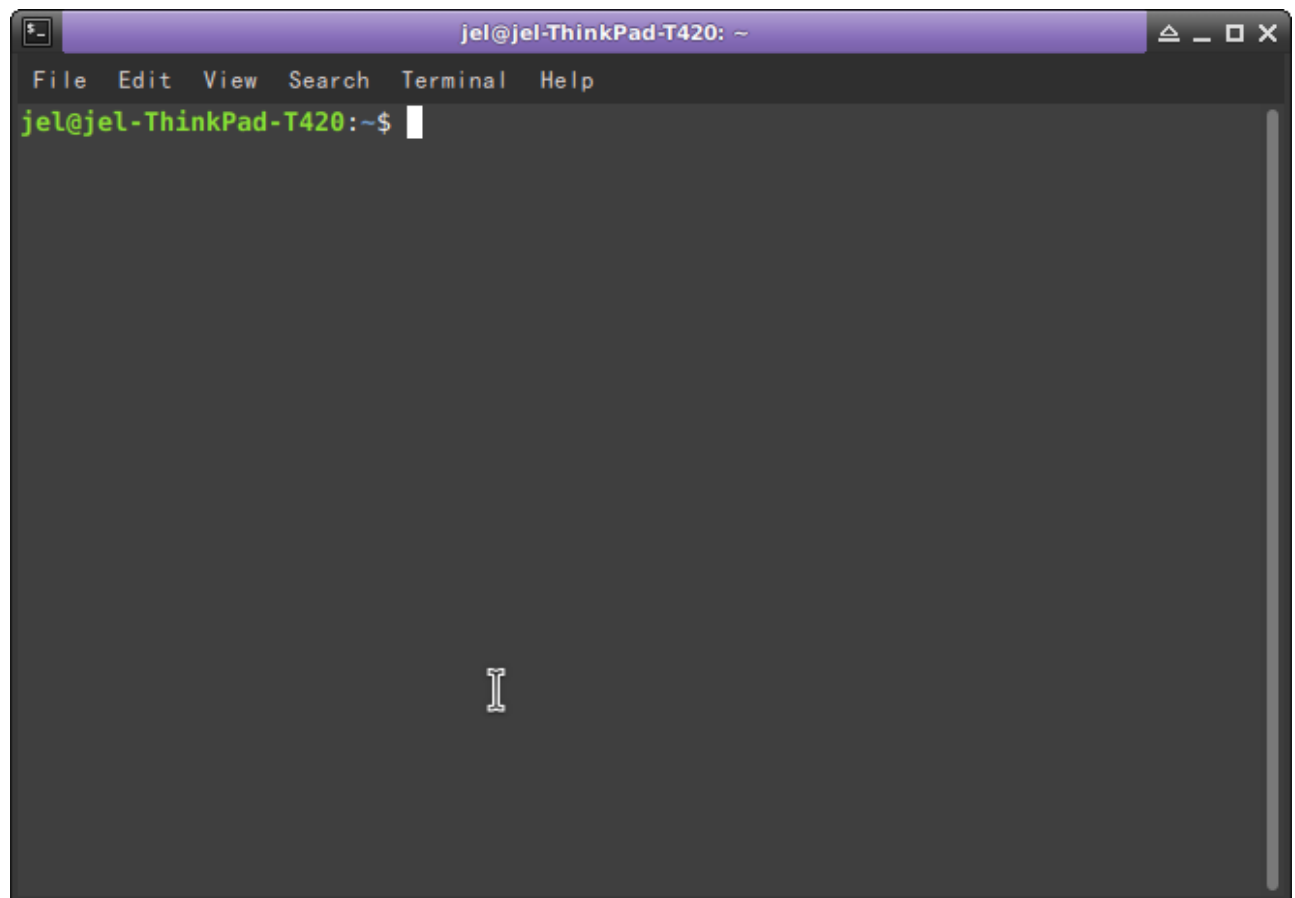
Week Report 3

Completed work for week 3

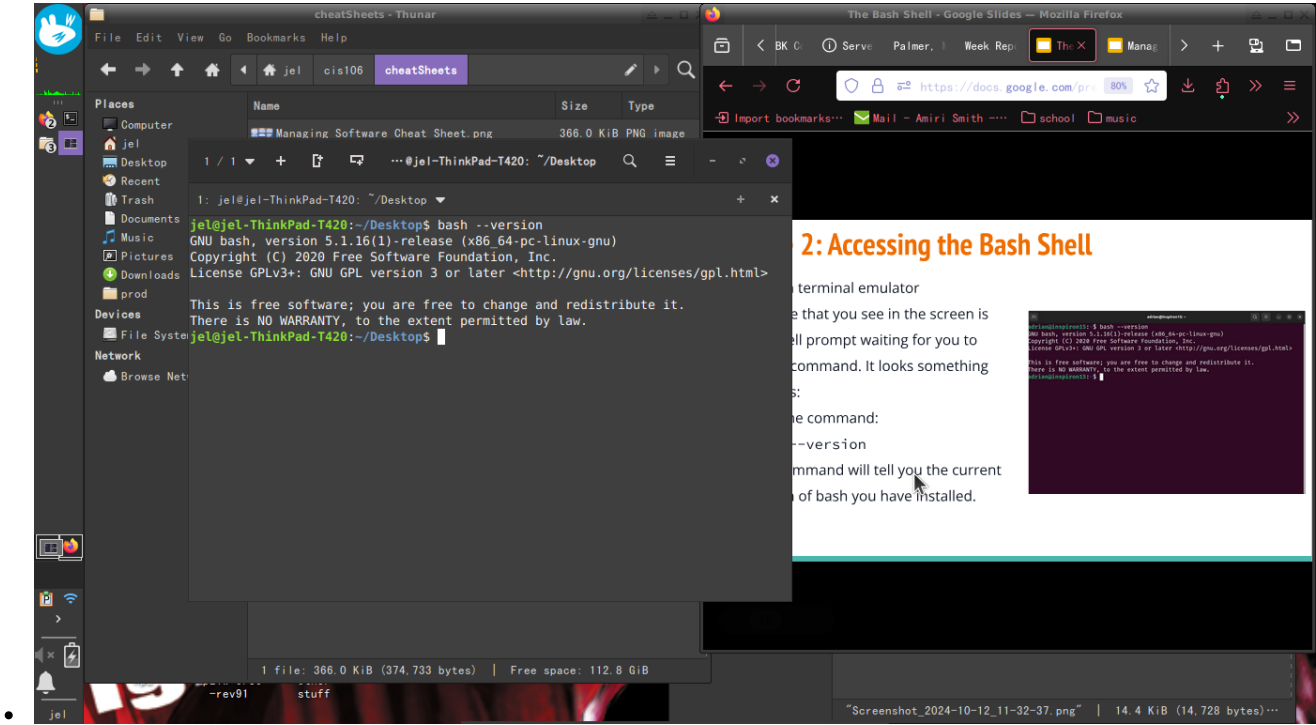
- [lab3](#)
- [notes3](#)

Practice

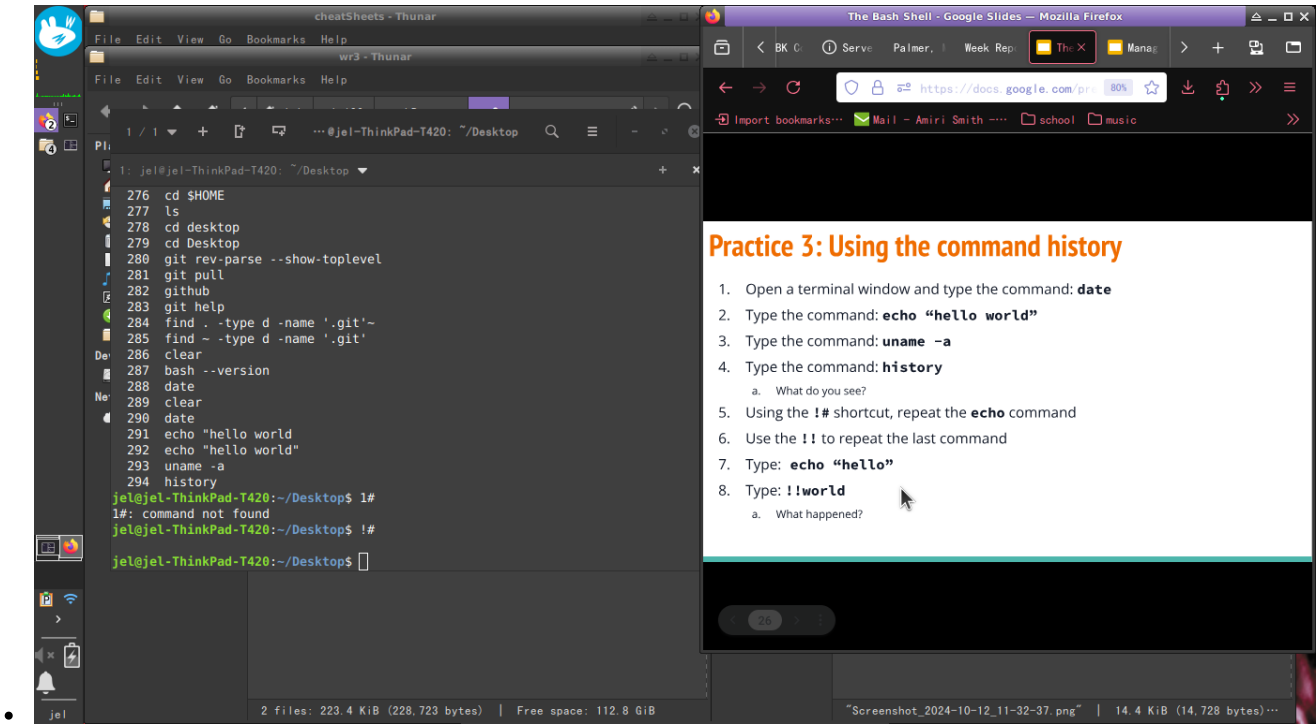
Practice 1



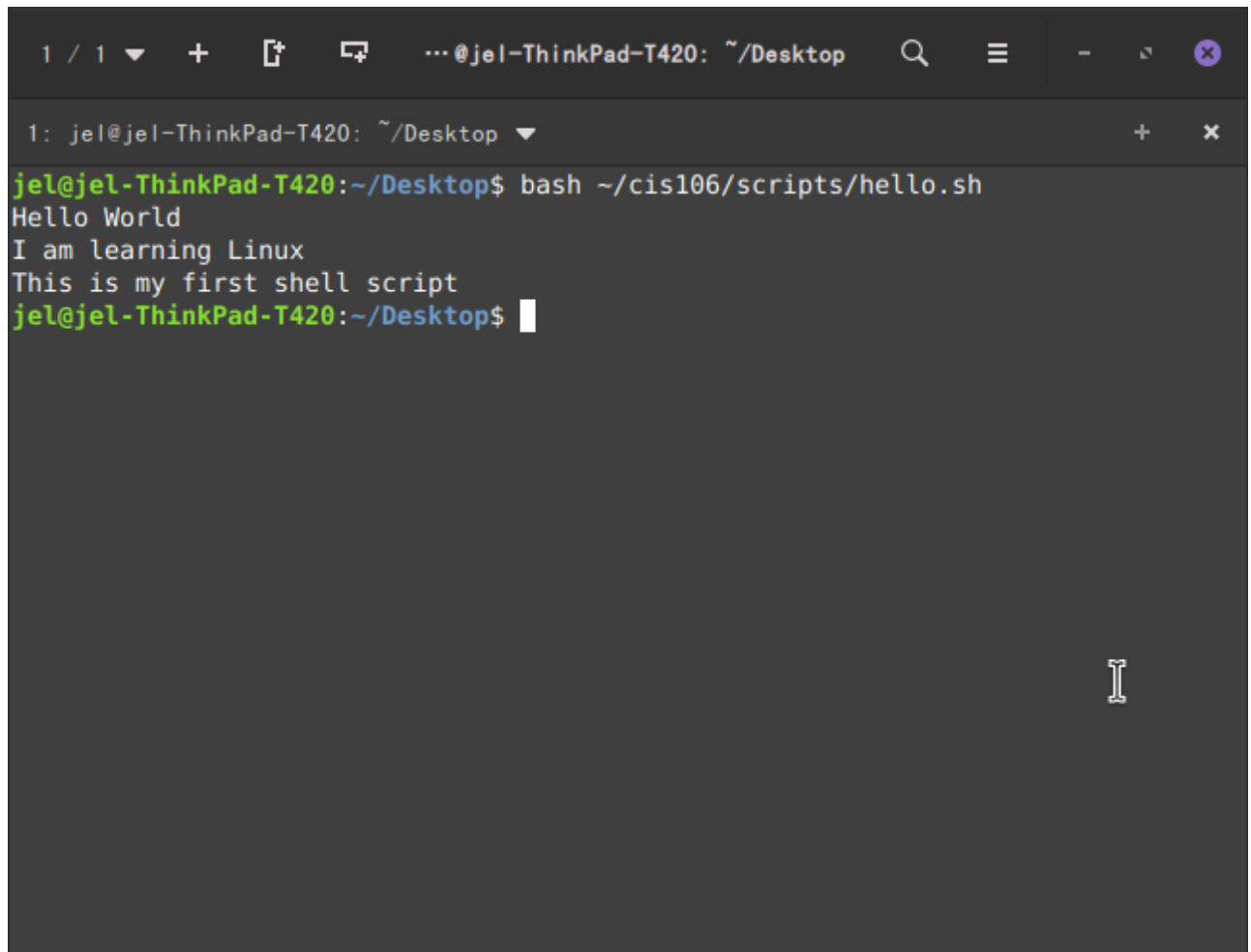
Practice 2



Practice 3



Practice 4



A terminal window titled "1: jel@jel-ThinkPad-T420: ~/Desktop" with standard window controls. The prompt is "jel@jel-ThinkPad-T420:~/Desktop\$". The user enters the command "bash ~/cis106/scripts/hello.sh". The script outputs three lines: "Hello World", "I am learning Linux", and "This is my first shell script". The prompt returns to "jel@jel-ThinkPad-T420:~/Desktop\$".

```
1: jel@jel-ThinkPad-T420: ~/Desktop
jel@jel-ThinkPad-T420:~/Desktop$ bash ~/cis106/scripts/hello.sh
Hello World
I am learning Linux
This is my first shell script
jel@jel-ThinkPad-T420:~/Desktop$
```

Practice 5

- src5

Practice 6

```
1 / 1 + [ ] ...@jel-ThinkPad-T420: ~/Desktop 🔍 ☰ - ↵ ✕

1: jel@jel-ThinkPad-T420: ~/Desktop + ✕
then an optional modifier, which is either
E to use the locale's alternate representations if available, or
0 to use the locale's alternate numeric 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 Friday on the west coast of the US
$ date --date='TZ="America/Los_Angeles" 09:00 next Fri'

GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
Full documentation <https://www.gnu.org/software/coreutils/date>
or available locally via: info '(coreutils) date invocation'
jel@jel-ThinkPad-T420:~/Desktop$

2: jel@jel-ThinkPad-T420: ~ + ✕
x86_64
jel@jel-ThinkPad-T420:~$ uname -n
jel-ThinkPad-T420
jel@jel-ThinkPad-T420:~$ uname -i -o
x86_64 GNU/Linux
jel@jel-ThinkPad-T420:~$ free --giga
              total        used          free      shared  buff/cache   available
Mem:           16           2           10           0           3           13
Swap:           2           0            2
jel@jel-ThinkPad-T420:~$ whatis ls
ls (1)          - list directory contents
jel@jel-ThinkPad-T420:~$ whatis pwd
pwd (1)         - print name of current/working directory
jel@jel-ThinkPad-T420:~$ whatis apt
apt (8)         - command-line interface
jel@jel-ThinkPad-T420:~$ whatis sudo
sudo (8)        - execute a command as another user
jel@jel-ThinkPad-T420:~$
```

Practice 7

```
1 / 1 + [Tilix: jel@jel-ThinkPad-T420: ~] 🔍 ☰ - [X]

1: jel@jel-ThinkPad-T420: ~/Desktop + [X]

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Examples:
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GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
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jel@jel-ThinkPad-T420:~/Desktop$

2: jel@jel-ThinkPad-T420: ~ + [X]

# To create a .tar.bz2 archive:
tar -cjvf /path/to/foo.tar.bz2 /path/to/foo/

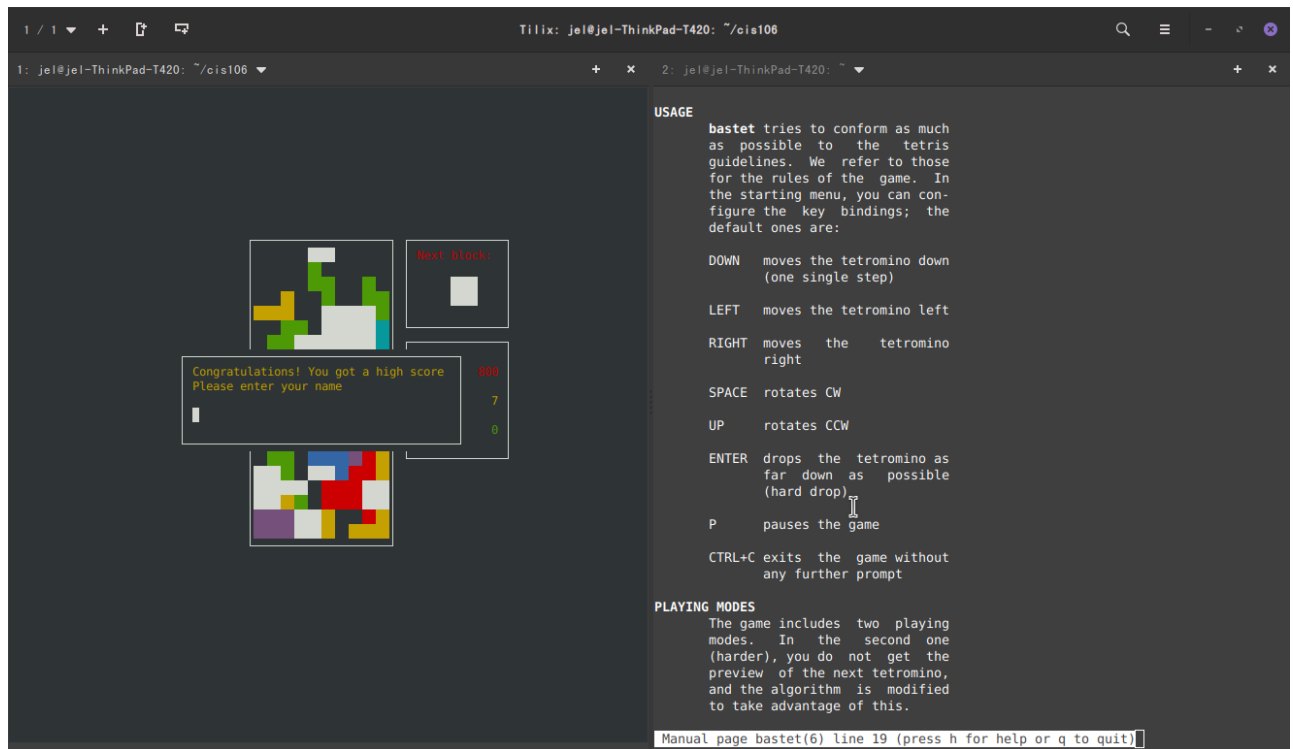
# To list the content of an .tar.bz2 archive:
tar -tjvf /path/to/foo.tar.bz2

# 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>
jel@jel-ThinkPad-T420:~$
```

Practice 1 - Managing Software



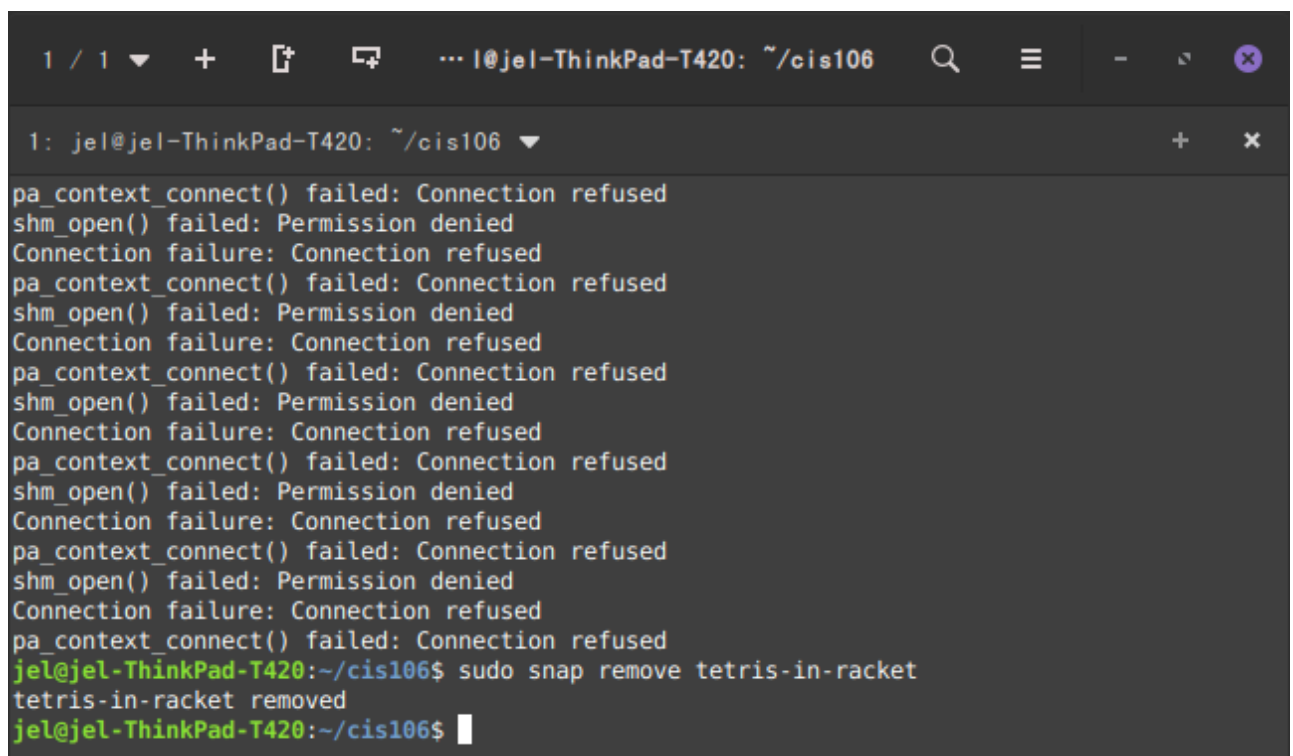
The screenshot shows a terminal window with two panes. The left pane displays the game 'bastet', which is a Tetris-like game. It features a main play area with a grid of colored blocks, a 'Next block' preview area showing a single white block, and a score display on the right showing '000', '7', and '6'. A message box in the center says 'Congratulations! You got a high score. Please enter your name'. The right pane shows the manual page for 'bastet', titled 'USAGE'. It explains that 'bastet' tries to conform to Tetris guidelines and lists the following controls:

- DOWN: moves the tetromino down (one single step)
- LEFT: moves the tetromino left
- RIGHT: moves the tetromino right
- SPACE: rotates CW
- UP: rotates CCW
- ENTER: drops the tetromino as far down as possible (hard drop)
- P: pauses the game
- CTRL+C: exits the game without any further prompt

Below the controls, the 'PLAYING MODES' section states: 'The game includes two playing modes. In the second one (harder), you do not get the preview of the next tetromino, and the algorithm is modified to take advantage of this.'

At the bottom of the terminal, a status bar reads: 'Manual page bastet(6) line 19 (press h for help or q to quit)'.

Practice 3 - Managing Software



The screenshot shows a terminal window with a series of error messages. The errors are:

```
pa_context_connect() failed: Connection refused
shm_open() failed: Permission denied
Connection failure: Connection refused
pa_context_connect() failed: Connection refused
shm_open() failed: Permission denied
Connection failure: Connection refused
pa_context_connect() failed: Connection refused
shm_open() failed: Permission denied
Connection failure: Connection refused
pa_context_connect() failed: Connection refused
shm_open() failed: Permission denied
Connection failure: Connection refused
pa_context_connect() failed: Connection refused
shm_open() failed: Permission denied
Connection failure: Connection refused
```

After the errors, the user runs the command:

```
jel@jel-ThinkPad-T420:~/cis106$ sudo snap remove tetris-in-racket
```

The output of the command is:

```
tetris-in-racket removed
jel@jel-ThinkPad-T420:~/cis106$
```