

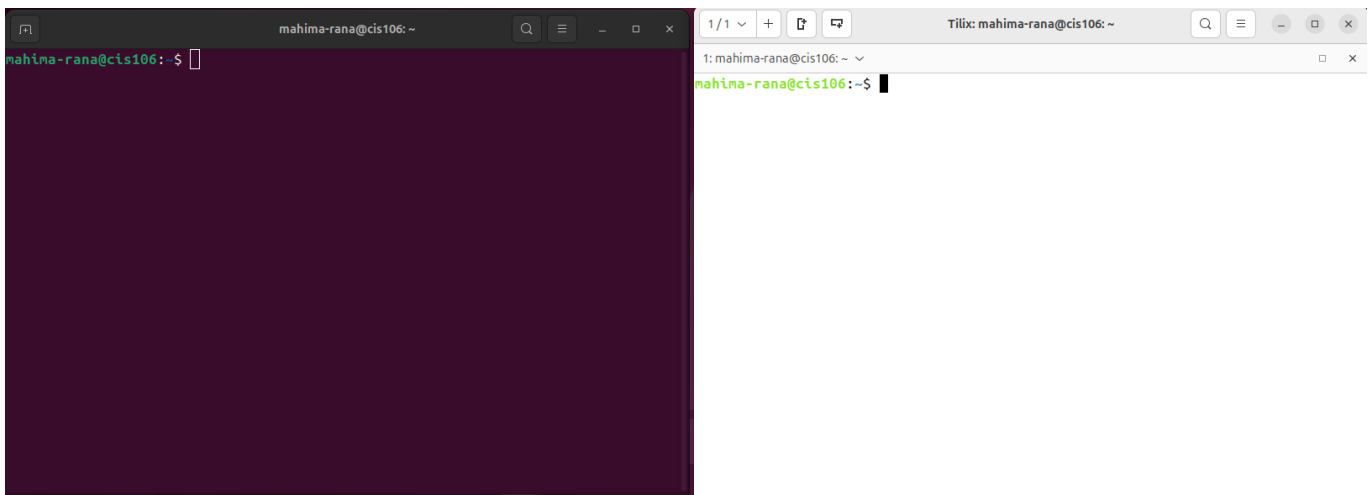
Week Report3

Completed work for week 3

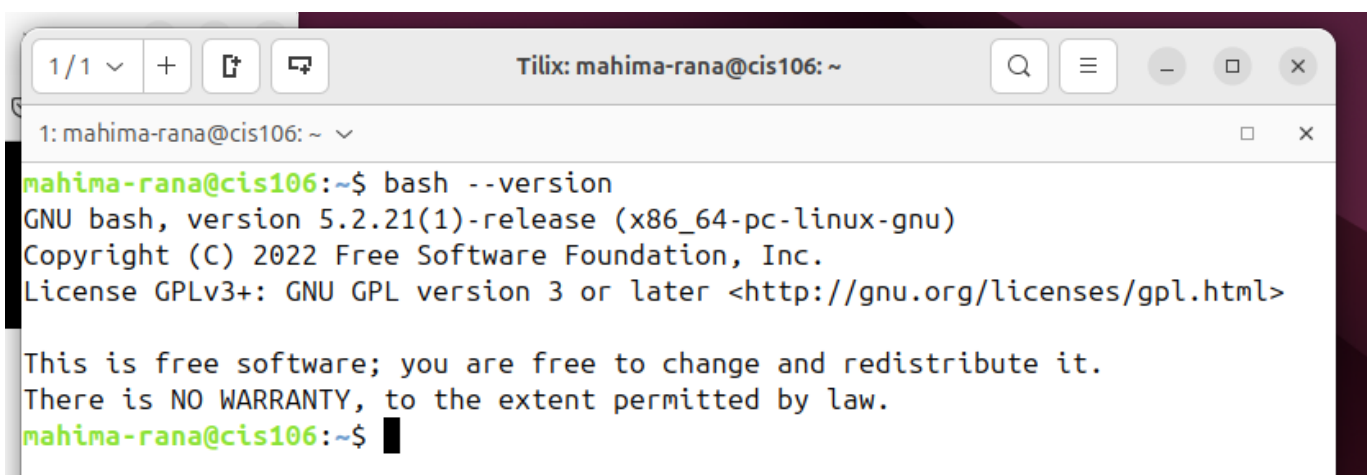
- [lab3](#)
- [note3](#)
- [Managing software Cheat sheet](#)
- [What is a shell](#)
- [Managing Software](#)

Practice

Practice 1



Practice 2



Practice 3

```
1/1  +  [ ]  [ ]
1: mahima-rana@cis106: ~  v

93  clear
94  cis106/labs/lab3/lab3-script1.sh
95  clear
96  bash ~/cis106/labs/lab3/challenge_lab3.sh
97  bash --version
98  clear
99  date
100 echo "hello world"
101 uname -a
102 history
103 cd; clear; echo "hello"; echo "another"
104 clear
105 date
106 echo "hello world"
107 uname -a
108 history
109 ! 59
110 cd; clear; echo "hello"; echo "another"
111 clear
112 date
113 echo "hello world"
114 uname -a
115 history
mahima-rana@cis106:~$ !#

mahima-rana@cis106:~$ !# echo
echo

mahima-rana@cis106:~$ !! echo "hello"
history echo "hello"
bash: history: echo: numeric argument required
mahima-rana@cis106:~$ !!world
history echo "hello"world
bash: history: echo: numeric argument required
mahima-rana@cis106:~$ █
```

Practice 4

```
mahima-rana@cis106: ~
mahima-rana@cis106:~$ bash ~/script/hello.sh
hello world
  i am learning Linux
this is my first script
mahima-rana@cis106:~$
```

Practice 5

1/1 + [] [] []

Tilix: mahima-rana@cis106: ~

1: mahima-rana@cis106: ~

2: mahima-rana@cis106: ~

NAME
uname - print system information

SYNOPSIS
uname [OPTION]...

DESCRIPTION
Print certain system information. 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

-n, --nodename
print the network node hostname

-r, --kernel-release
print the kernel release

-v, --kernel-version

mahima-rana@cis106:~\$ uname -s
Linux

mahima-rana@cis106:~\$ uname -n
cis106

mahima-rana@cis106:~\$ uname -i0
uname: invalid option -- '0'
Try 'uname --help' for more information.

mahima-rana@cis106:~\$ uname -io
x86_64 GNU/Linux

mahima-rana@cis106:~\$ man date

mahima-rana@cis106:~\$ man df

mahima-rana@cis106:~\$ man free

mahima-rana@cis106:~\$ man clear

mahima-rana@cis106:~\$ man history

mahima-rana@cis106:~\$ free --giga

	total	used	free	shared	buff/cache	available
Mem:	4	2	0	0	1	1
Swap:	4	0	3			

mahima-rana@cis106:~\$

Practice 6

```
1/1 + [T] [C] Tilix: mahima-rana@cis106: ~ [Q] [≡] [−] [□] [×]
1: mahima-rana@cis106: ~ ▾
mahima-rana@cis106:~$ whatis ls
ls (1) - list directory contents
mahima-rana@cis106:~$ whatis pwd
pwd (1) - print name of current/working directory
mahima-rana@cis106:~$ whatis apt
apt (8) - command-line interface
mahima-rana@cis106:~$ whatis sudo
sudo (8) - execute a command as another user
mahima-rana@cis106:~$ █
```

Practice 7

```
1/1 + [T] [C] Tilix: mahima-rana@cis106: ~ [Q] [≡] [−] [□] [×]
1: mahima-rana@cis106: ~ ▾ A[ □ × 2: mahima-rana@cis106: ~ ▾ A[ □ ×
mahima-rana@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 -xivf /path/to/foo.tar.bz2
mahima-rana@cis106:~$ cheat tar
# 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/

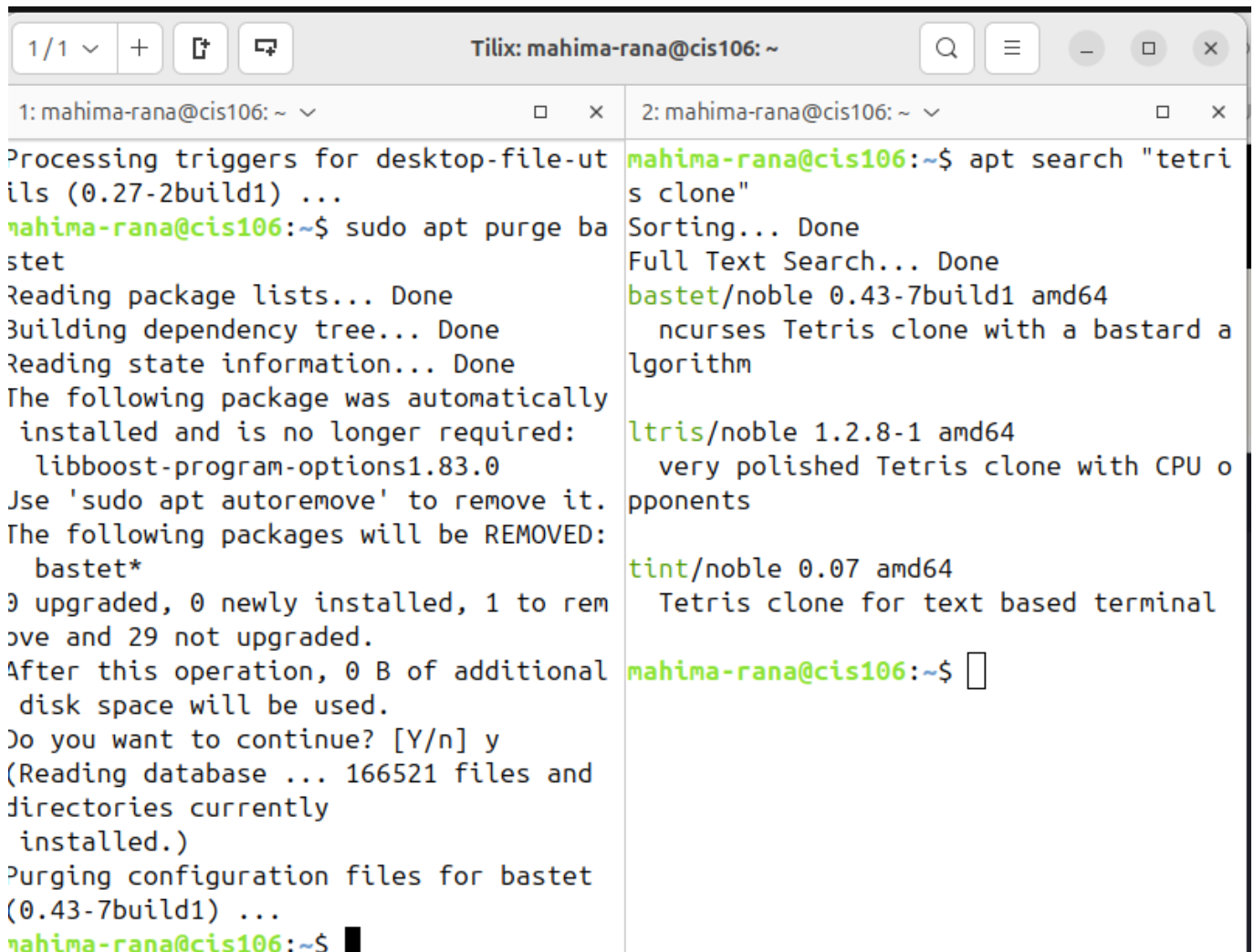
# To extract a .tgz or .tar.gz archive:
tar -xzvf /path/to/foo.tgz
tar -xzvf /path/to/foo.tar.gz

# 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 -xivf /path/to/foo.tar.bz2
```

Practice 1 Managing Software



```
1/1 + [T] [Q] Tilix: mahima-rana@cis106: ~ [Q] [E] [X]
1: mahima-rana@cis106: ~ [Q] [X] 2: mahima-rana@cis106: ~ [Q] [X]
Processing triggers for desktop-file-utils (0.27-2build1) ...
mahima-rana@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 29 not upgraded.
After this operation, 0 B of additional disk space will be used.
Do you want to continue? [Y/n] y
(Reading database ... 166521 files and directories currently installed.)
Purging configuration files for bastet (0.43-7build1) ...
mahima-rana@cis106:~$
mahima-rana@cis106:~$ apt search "tetris clone"
Sorting... Done
Full Text Search... Done
bastet/noble 0.43-7build1 amd64
  ncurses Tetris clone with a bastard algorithm
ltris/noble 1.2.8-1 amd64
  very polished Tetris clone with CPU optimizations
tint/noble 0.07 amd64
  Tetris clone for text based terminal
mahima-rana@cis106:~$
```

Practice 3 Managing software

```
1/1 + [T] [R] Tilix: mahima-rana@cis106: ~ [Q] [≡] [–] [□] [×]
1: mahima-rana@cis106: ~ AI [□] [×]
mahima-rana@cis106:~$ snap search "tetris clone"
Name                Version  Publisher  Notes  Summary
tetris-in-racket    1.2-2    brunonova  -      Tetris clone developed in Racke
t
vitetris            0.57     bladernr   -      Console based version of Tetris
fairtris           3.0.0.4  chronoscz  -      A fair implementation of Classi
c Tetris® video game.
pmtris             1.0      kz6fittycent -      Poor Man's Tetris Clone
ltris-windows      1.2.3    marisag1967 -      A free Tetris clone that follow
s the original rules but adds some extras
mahima-rana@cis106:~$ sudo snap install tetris-in-racket
[sudo] password for mahima-rana:
tetris-in-racket 1.2-2 from Bruno Nova (brunonova) installed
mahima-rana@cis106:~$ man tetris-in-racket
No manual entry for tetris-in-racket
mahima-rana@cis106:~$ tetris-in-racket --help
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
```