

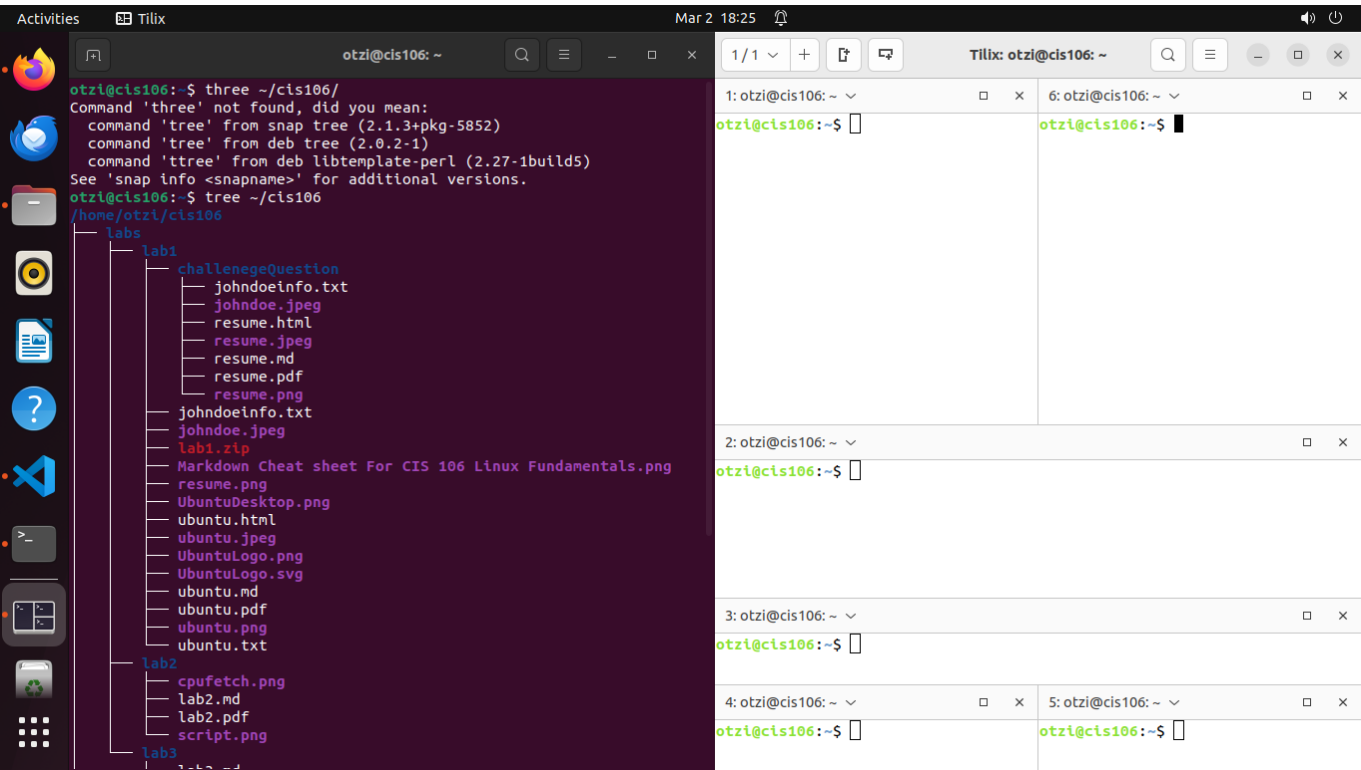
# Week Report 3

## Completed work for week 3

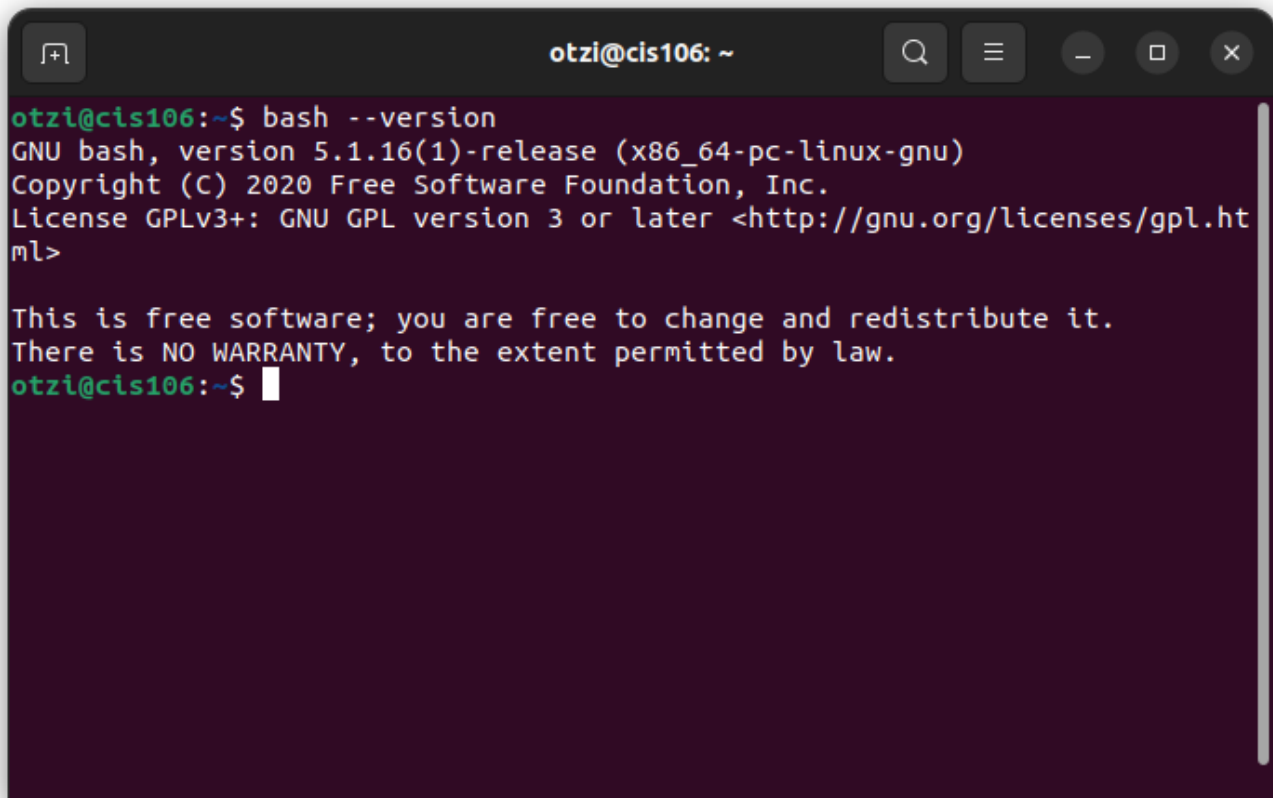
- [Lab 3](#)
- [Notes 3](#)

## Practice

### Practice 1



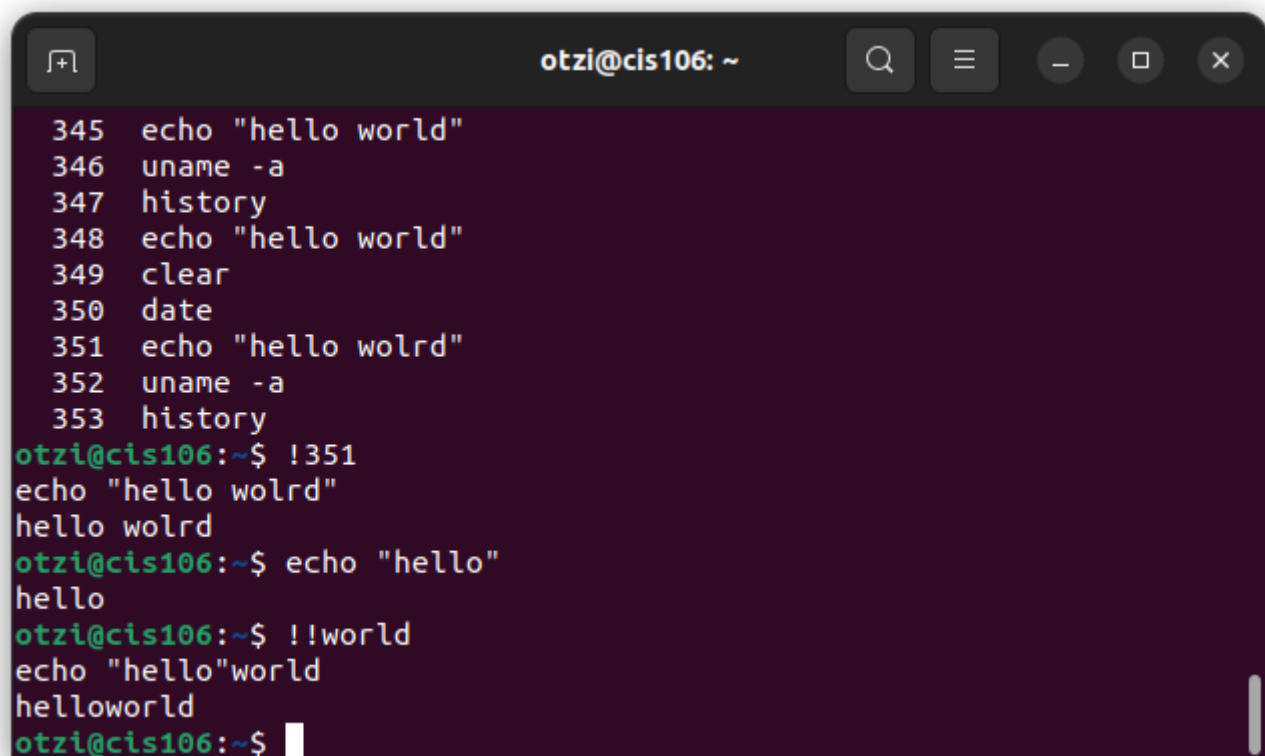
## Practice 2

A terminal window titled 'otzi@cis106: ~' with standard window controls. The terminal shows the command 'bash --version' being executed, which outputs the GNU bash version 5.1.16(1) and its license information. The prompt returns to the user.

```
otzi@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.ht
ml>

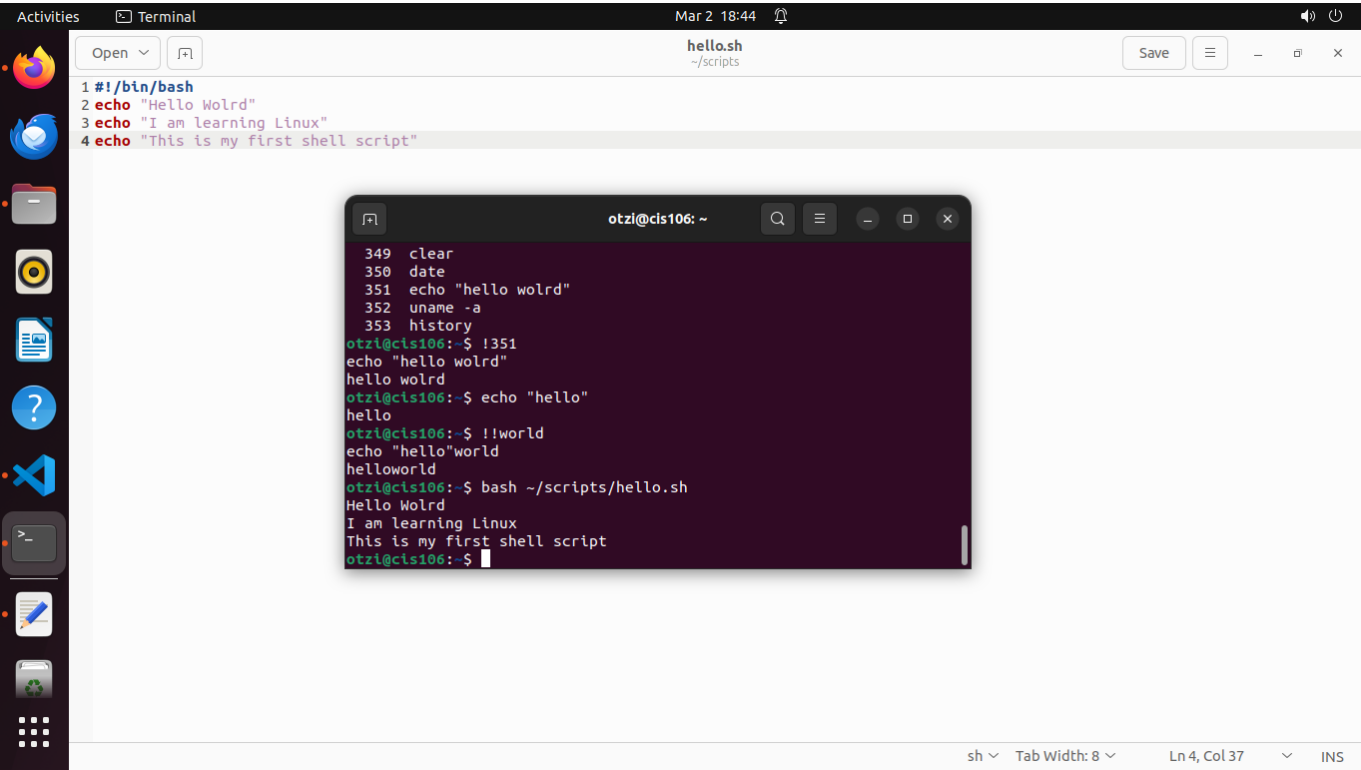
This is free software; you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
otzi@cis106:~$
```

## Practice 3

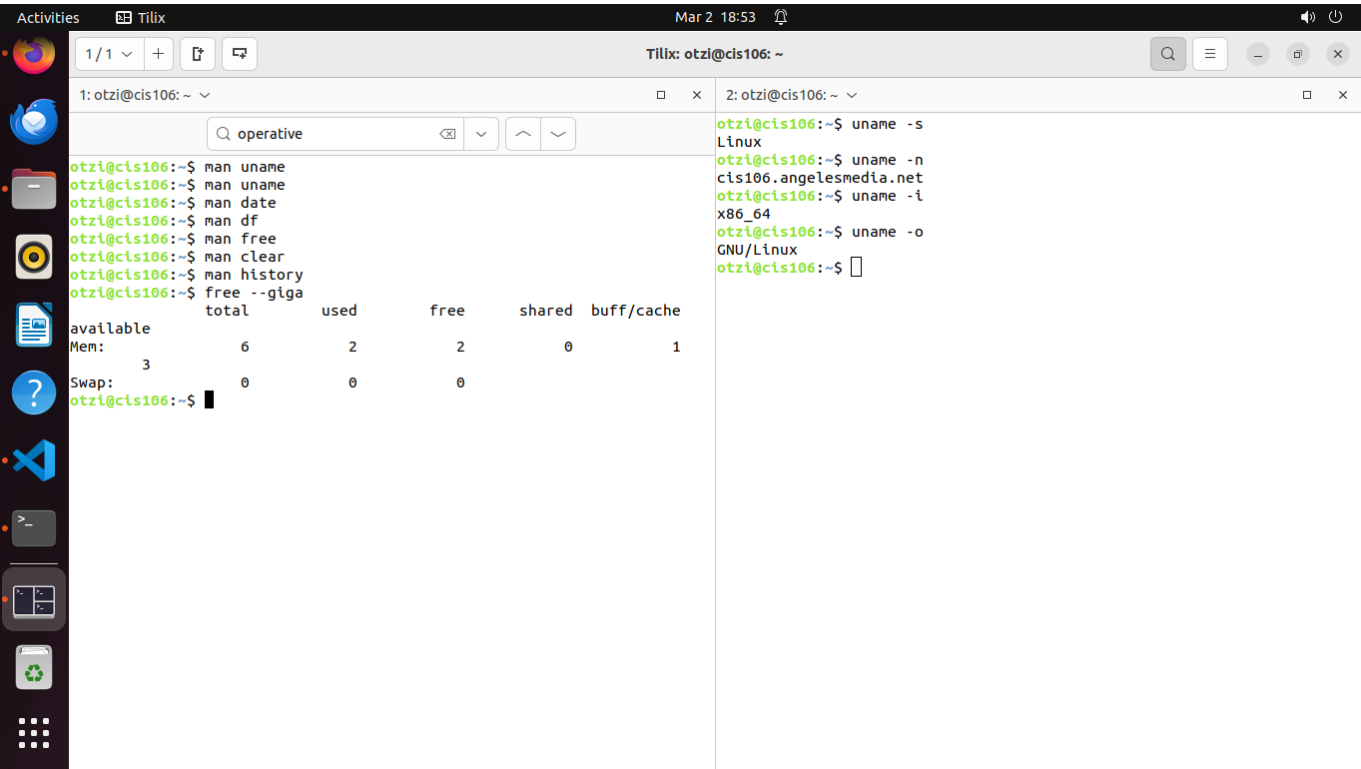
A terminal window titled 'otzi@cis106: ~' showing a script being executed. The script contains several 'echo' and 'uname' commands. The user then uses the 'history' command to view the script's contents, followed by using '!' to re-execute specific lines. The prompt returns to the user.

```
345 echo "hello world"
346 uname -a
347 history
348 echo "hello world"
349 clear
350 date
351 echo "hello wolrd"
352 uname -a
353 history
otzi@cis106:~$ !351
echo "hello wolrd"
hello wolrd
otzi@cis106:~$ echo "hello"
hello
otzi@cis106:~$ !!world
echo "hello"world
helloworld
otzi@cis106:~$
```

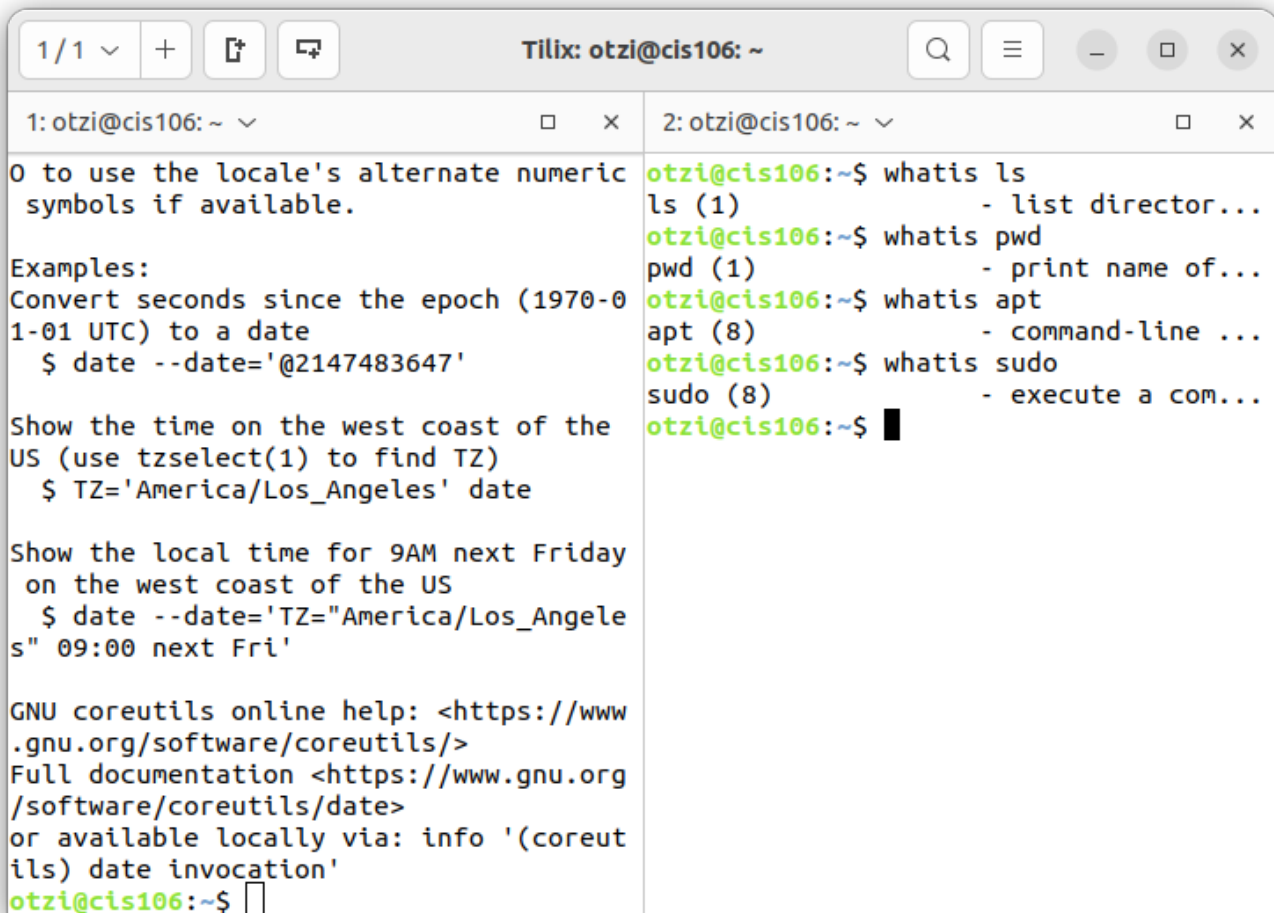
Practice 4



Practice 5



## Practice 6



```
1/1  +  [Icons]  Tilix: otzi@cis106: ~  [Search] [Menu] [Window] [Close]
```

```
1: otzi@cis106: ~  2: otzi@cis106: ~
```

```
0 to use the locale's alternate numeric
symbols if available.

Examples:
Convert seconds since the epoch (1970-0
1-01 UTC) to a date
$ date --date='@2147483647'

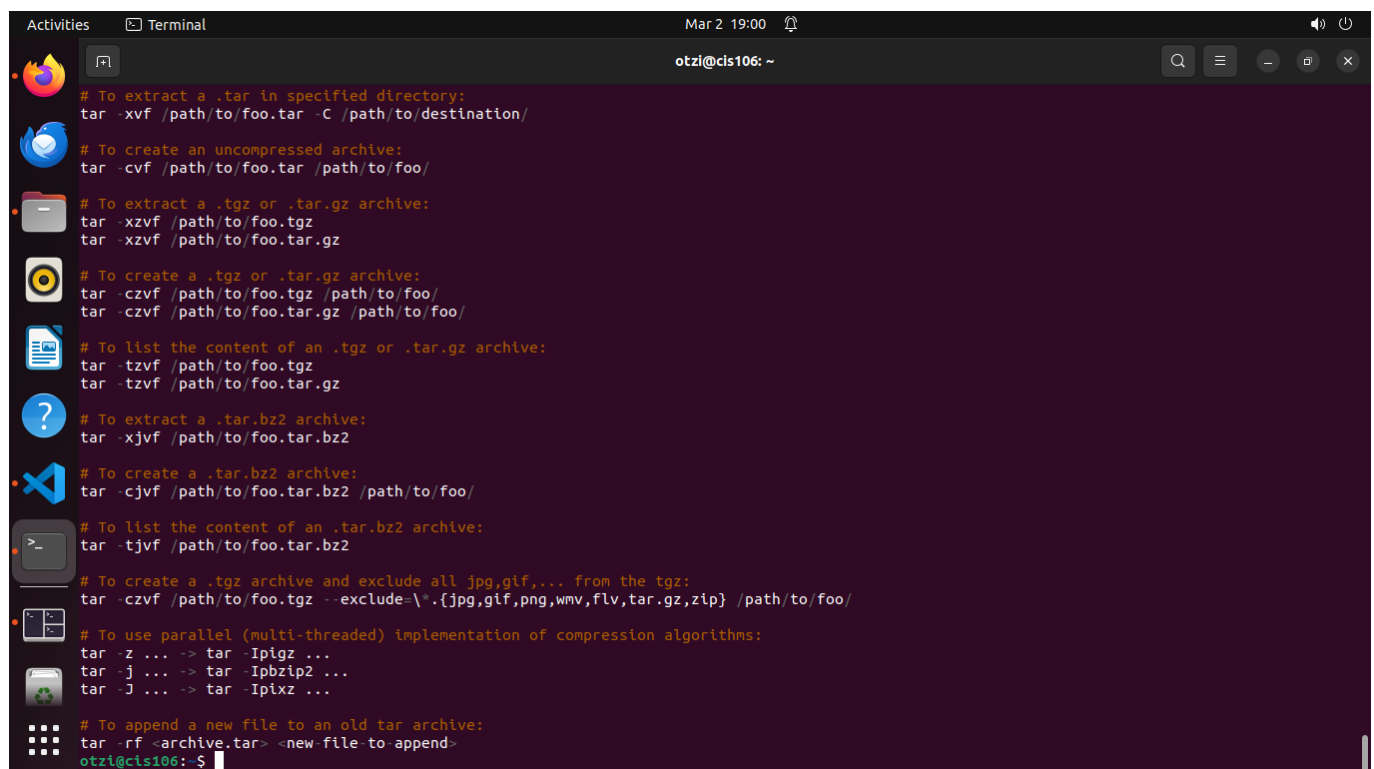
Show the time on the west coast of the
US (use tzselect(1) to find TZ)
$ TZ='America/Los_Angeles' date

Show the local time for 9AM next Friday
on the west coast of the US
$ date --date='TZ="America/Los_Angele
s" 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 '(coreut
ils) date invocation'
otzi@cis106:~$
```

```
otzi@cis106:~$ whatis ls
ls (1)                - list director...
otzi@cis106:~$ whatis pwd
pwd (1)               - print name of...
otzi@cis106:~$ whatis apt
apt (8)               - command-line ...
otzi@cis106:~$ whatis sudo
sudo (8)              - execute a com...
otzi@cis106:~$
```

## Practice 7



```
Activities  Terminal  Mar 2 19:00  [Icons]  otzi@cis106: ~  [Search] [Menu] [Window] [Close]
```

```
# 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>
otzi@cis106:~$
```

## Practice 1 - Managing Software

```

1: otzi@cis106: ~
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
  bastet
0 upgraded, 0 newly installed, 1 to remove and 4 not upgraded.
After this operation, 212 kB disk space will be freed.
Do you want to continue? [Y/n] y
Abort.
otzi@cis106:~$ sudo apt purge bastet
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer r
equired:
  libboost-program-options1.74.0 linux-image-5.15.0-125-generic
  linux-modules-5.15.0-125-generic
  linux-modules-extra-5.15.0-125-generic
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
  bastet*
0 upgraded, 0 newly installed, 1 to remove and 4 not upgraded.
After this operation, 212 kB disk space will be freed.
Do you want to continue? [Y/n] y
(Reading database ... 283717 files and directories currently installed.
)
Removing bastet (0.43-7) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for mailcap (3.70+nmuiubuntu1) ...
Processing triggers for desktop-file-utils (0.26-1ubuntu3) ...
(Reading database ... 283707 files and directories currently installed.
)
Purging configuration files for bastet (0.43-7) ...
otzi@cis106:~$

2: otzi@cis106: ~
otzi@cis106:~$ apt search "tetris clone"
Sorting... Done
Full Text Search... Done
bastet/jammy,now 0.43-7 amd64 [installed]
  ncurses Tetris clone with a bastard algorithm

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

tint/jammy 0.07 amd64
  Tetris clone for text based terminal
otzi@cis106:~$

```

## Practice 3 - Managing Software

```

1: otzi@cis106: ~
otzi@cis106:~$ sudo snap install tetris-in-racket
tetris-in-racket 1.2-2 from Bruno Nova (brunonova) installed
otzi@cis106:~$ sudo snap remove tetris-in-racket
tetris-in-racket removed
otzi@cis106:~$

2: otzi@cis106: ~
otzi@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 | chronoszcz   | -     | 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 |


otzi@cis106:~$

```