

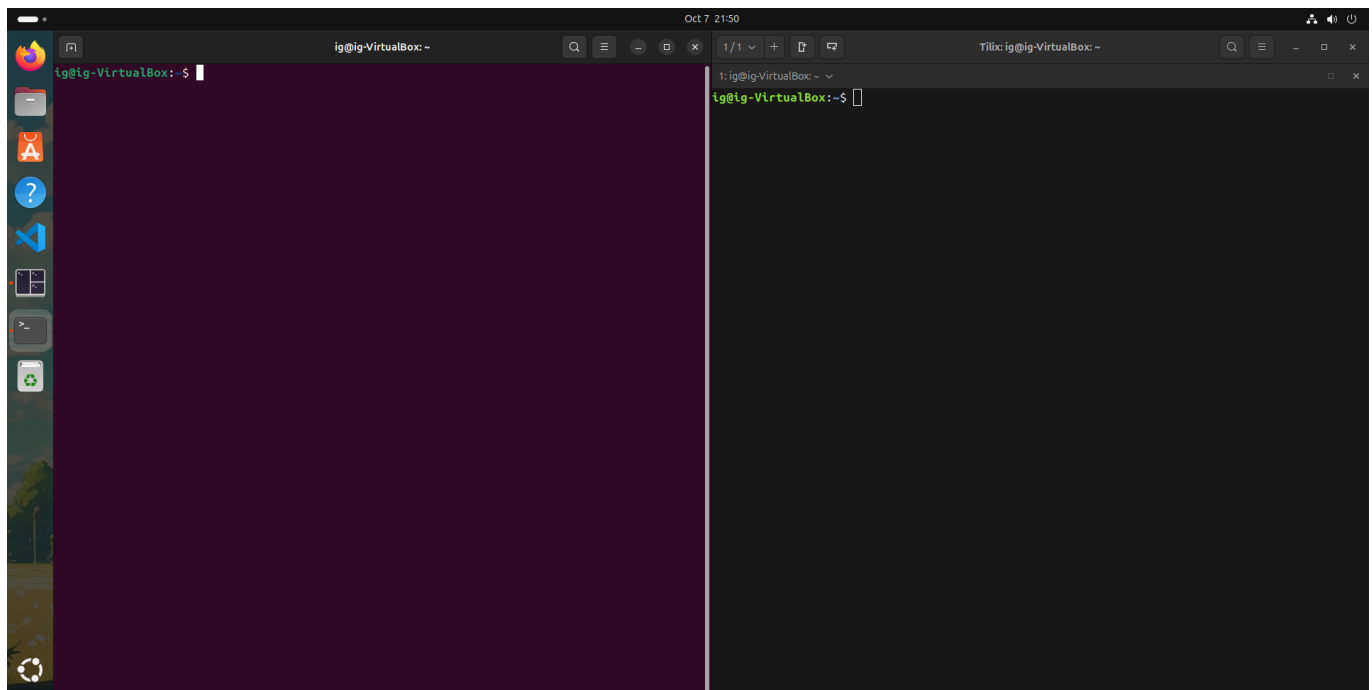
Week Report 3

Completed word for week 3

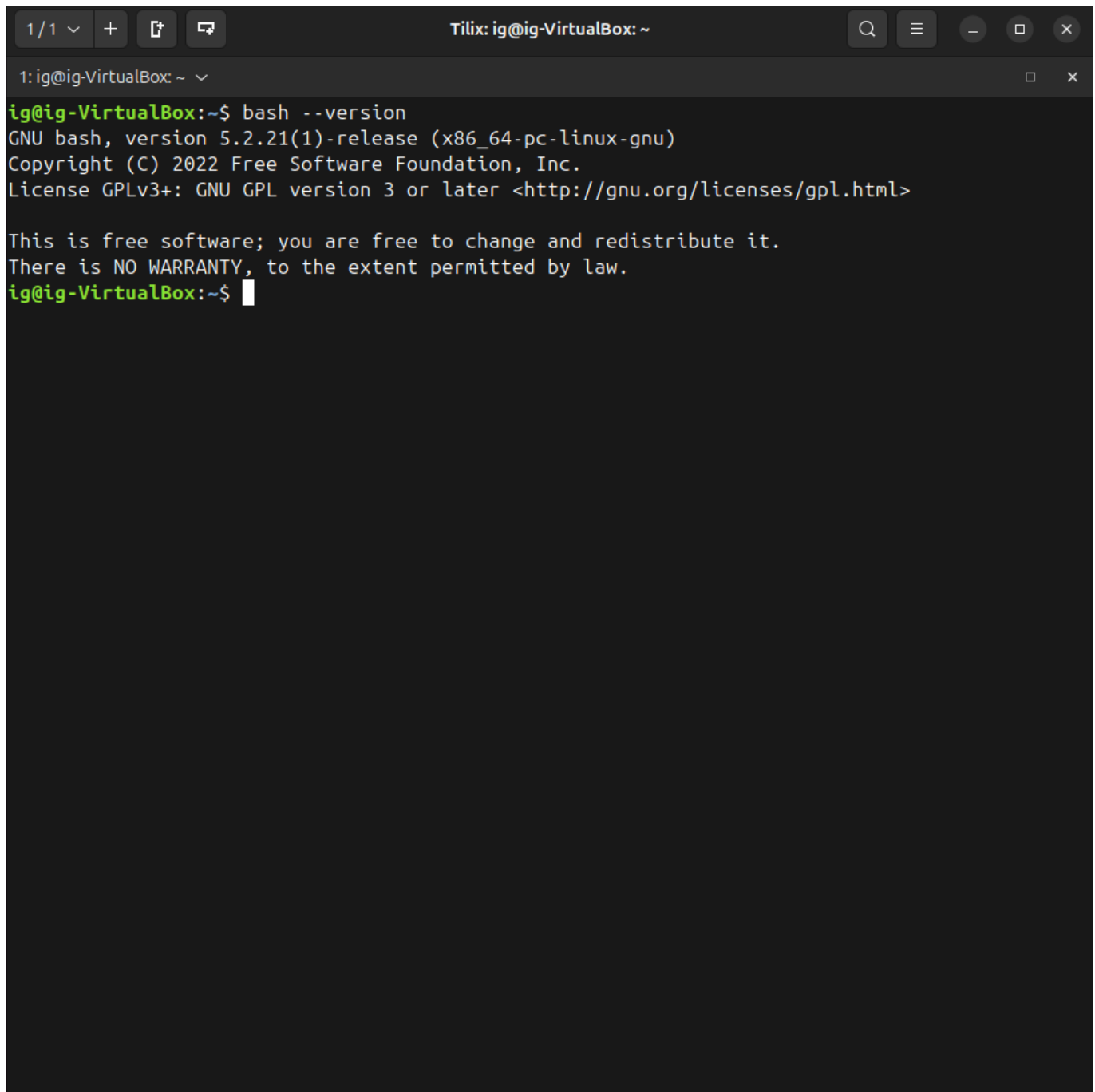
- [Lab3](#)
- [Notes3](#)
- [Managing software Cheat Sheet](#)
- [What is a shell](#)
- [Managing Software](#)

Practice

Practice 1



Practice 2

A terminal window titled "Tilix: ig@ig-VirtualBox: ~" with standard window controls. The terminal 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>", and a disclaimer: "This is free software; you are free to change and redistribute it. There is NO WARRANTY, to the extent permitted by law." The prompt "ig@ig-VirtualBox:~\$" is followed by a cursor.

```
1/1  +  [icon] [icon]
Tilix: ig@ig-VirtualBox: ~  [search] [menu] [minus] [maximize] [close]
1: ig@ig-VirtualBox: ~  [icon] [close]
ig@ig-VirtualBox:~$ 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.
ig@ig-VirtualBox:~$
```

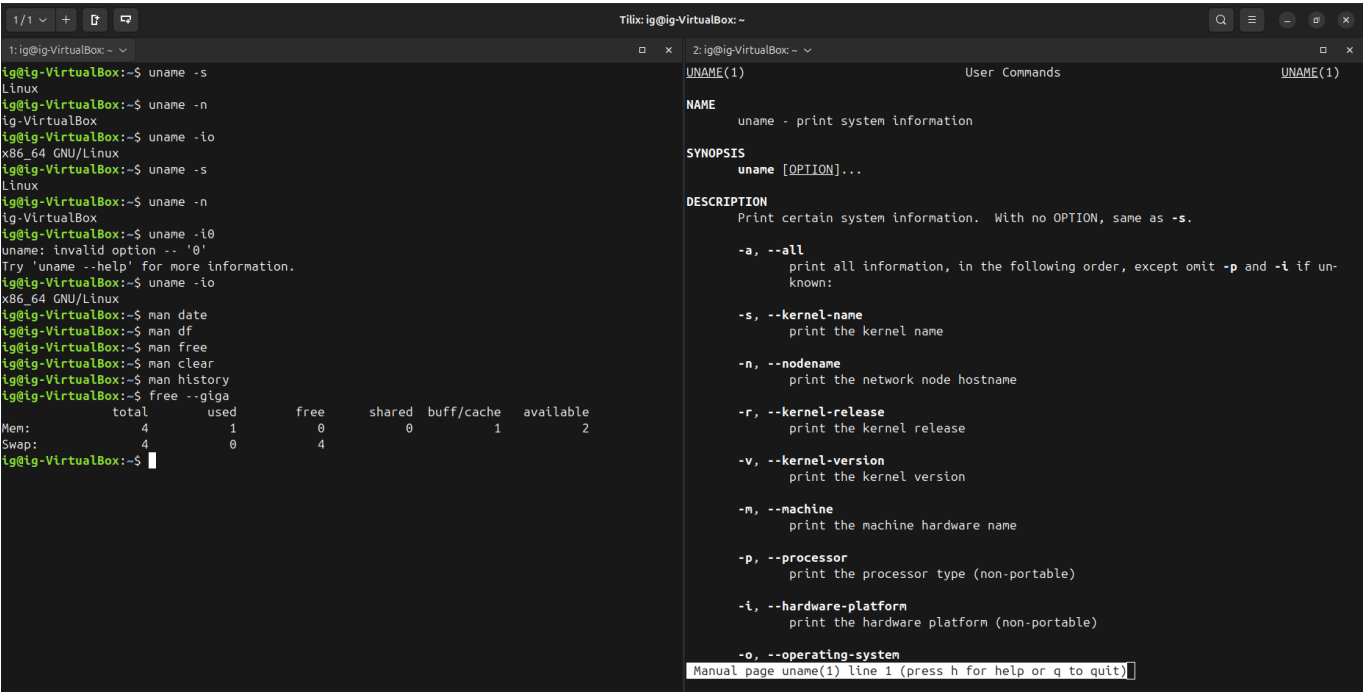
Practice 3

```
1/1 v + [ ] [ ]
Tilix: ig@ig-VirtualBox: ~
1: ig@ig-VirtualBox: ~
106 clear
107 bash ~/cis106/labs/lab3/challenge_lab3.sh
108 clear
109 bash ~/cis106/labs/lab3/challenge_lab3.sh
110 clear
111 bash ~/cis106/labs/lab3/challenge_lab3.sh
112 clear
113 bash ~/cis106/labs/lab3/challenge_lab3.sh
114 clear
115 bash ~/cis106/labs/lab3/challenge_lab3.sh
116 clear
117 bash ~/cis106/labs/lab3/challenge_lab3.sh
118 clear
119 bash ~/cis106/labs/lab3/challenge_lab3.sh
120 clear
121 bash ~/cis106/labs/lab3/challenge_lab3.sh
122 clear
123 bash ~/cis106/labs/lab3/challenge_lab3.sh
124 clear
125 bash ~/cis106/labs/lab3/challenge_lab3.sh
126 git pull
127 git add .
128 git commit -m "lab3 done"
129 git push
130 bash --version
131 clear
132 echo "hello world"
133 uname -a
134 history
ig@ig-VirtualBox:~$ !132
echo "hello world"
hello world
ig@ig-VirtualBox:~$ echo "hello"
hello
ig@ig-VirtualBox:~$ !! world
echo "hello" world
hello world
ig@ig-VirtualBox:~$
```

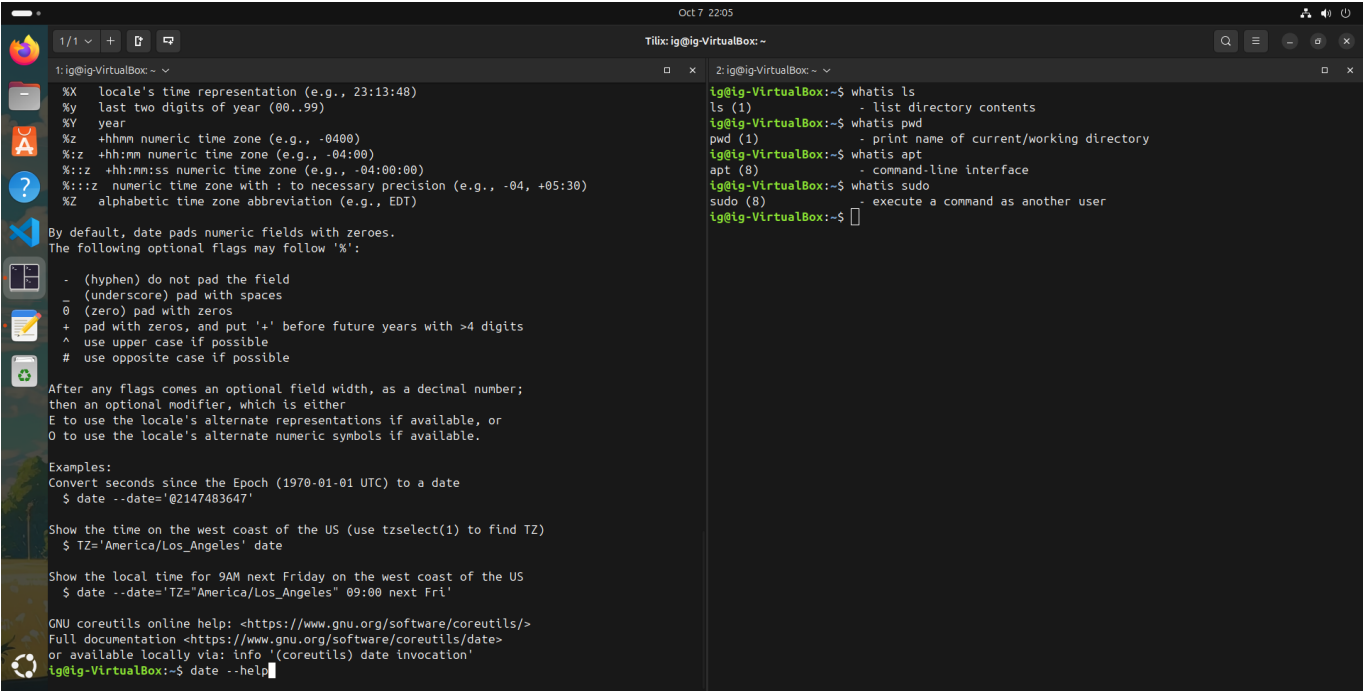
Practice 4

```
1/1 v + [ ] [ ]
1: ig@ig-VirtualBox: ~
ig@ig-VirtualBox:~$ bash ~/scripts/hello.sh
bash: /home/ig/scripts/hello.sh: No such file or directory
ig@ig-VirtualBox:~$ bash ~/Scripts/hello.sh
hello world
I am learning linux
this is my second script
ig@ig-VirtualBox:~$
```

Practice 5



Practice 6



Practice 7

```
1:ig@ig-VirtualBox: ~
# 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 -xzf /path/to/foo.tgz
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>
ig@ig-VirtualBox:~$
```

Practice 1 - Managing Software

```
1:ig@ig-VirtualBox: ~
Preparing to unpack .../libboost-program-options1.83.0-2.1ubuntu3_amd64.deb ...
Unpacking libboost-program-options1.83.0:amd64 (1.83.0-2.1ubuntu3) ...
Selecting previously unselected package bastet.
Preparing to unpack .../bastet_0.43-7build1_amd64.deb ...
Unpacking bastet (0.43-7build1) ...
Setting up libboost-program-options1.83.0:amd64 (1.83.0-2.1ubuntu3) ...
Setting up bastet (0.43-7build1) ...
Processing triggers for desktop-file-utils (0.27-2build1) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...
Processing triggers for man-db (2.12.0-4build2) ...
ig@ig-VirtualBox:~$ man bastet
ig@ig-VirtualBox:~$ bastet
ig@ig-VirtualBox:~$ sudo apt remove bastet
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  cabextract libboost-program-options1.83.0 ttf-mscorefonts-installer
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
  bastet
0 upgraded, 0 newly installed, 1 to remove and 17 not upgraded.
After this operation, 214 kB disk space will be freed.
Do you want to continue? [Y/n] Y
(Reading database ... 166504 files and directories currently installed.)
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) ...
ig@ig-VirtualBox:~$ sudo apt purge bastet
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package bastet
ig@ig-VirtualBox:~$

2:ig@ig-VirtualBox: ~
ig@ig-VirtualBox:~$ apt search "tetris clone"
Sorting... Done
Full Text Search... Done
bastet/noble 0.43-7build1 amd64
  ncurses Tetris clone with a bastard algorithm

ttris/noble 1.2.8-1 amd64
  very polished Tetris clone with CPU opponents

tint/noble 0.07 amd64
  Tetris clone for text based terminal
ig@ig-VirtualBox:~$
```

Practice 3 - Managing Software

