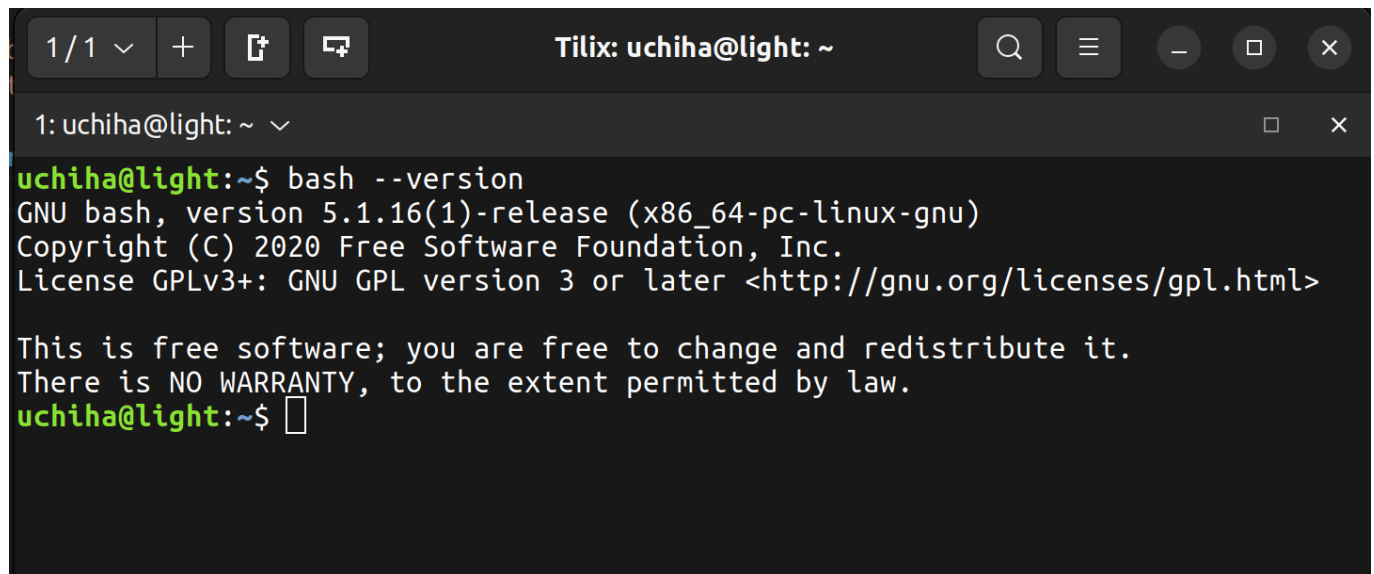


Week Report 3

Completed work for week 3

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

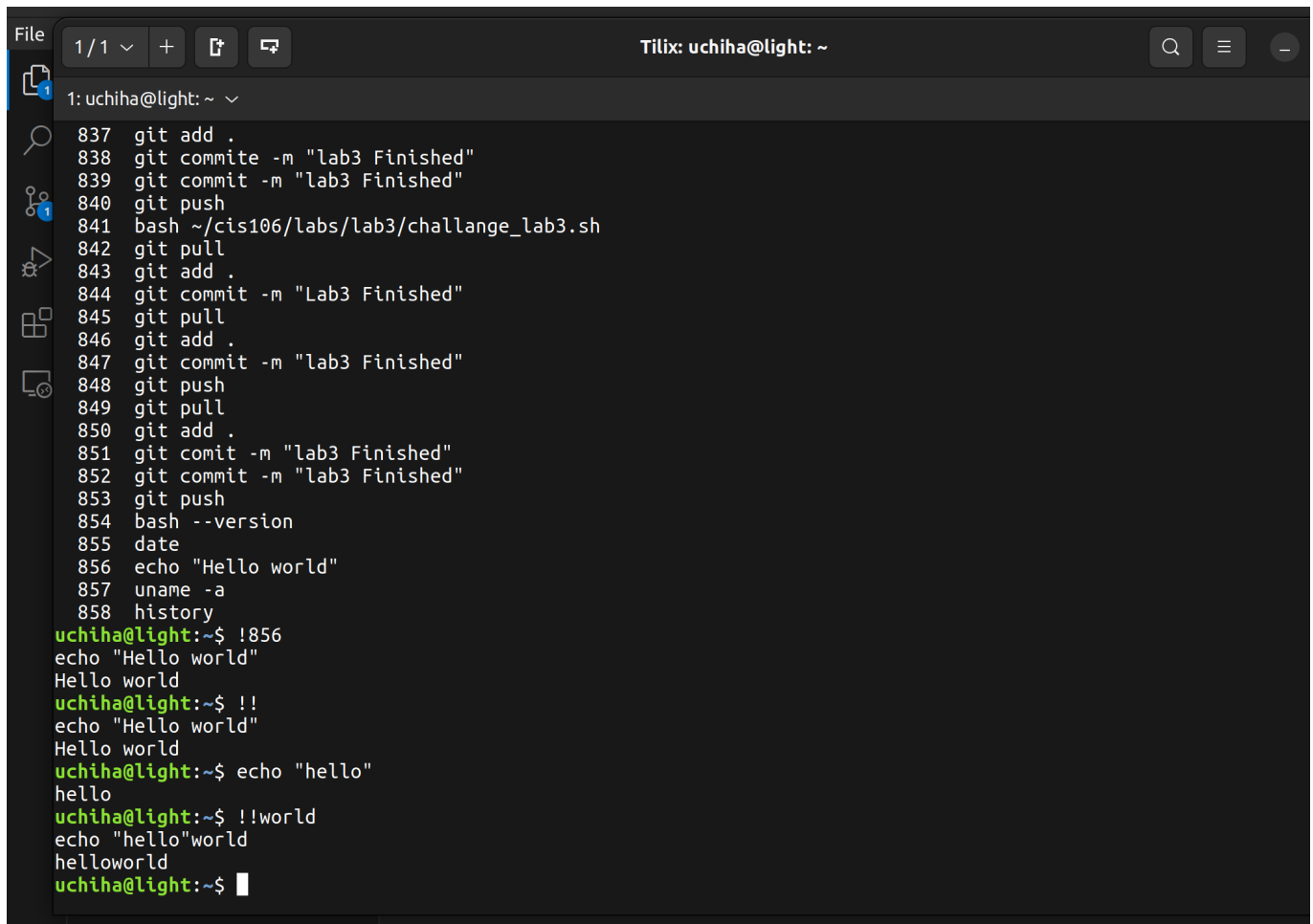
Practice 2: Accessing the bash shell



```
Tilix: uchiha@light: ~
1/1 v + [icon] [icon]
1: uchiha@light: ~ v
uchiha@light:~$ 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>

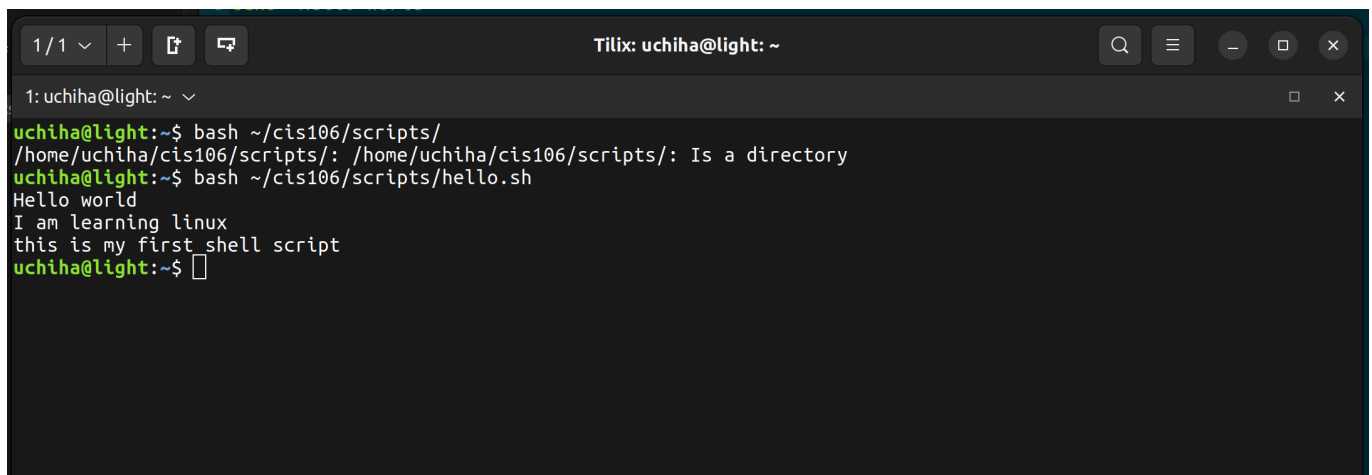
This is free software; you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
uchiha@light:~$
```

Practice 3: Using the command history



```
File 1/1 + [T] [C] Tilix: uchiha@light: ~
1: uchiha@light: ~
837 git add .
838 git commit -m "lab3 Finished"
839 git commit -m "lab3 Finished"
840 git push
841 bash ~/cis106/labs/lab3/challenge_lab3.sh
842 git pull
843 git add .
844 git commit -m "Lab3 Finished"
845 git pull
846 git add .
847 git commit -m "lab3 Finished"
848 git push
849 git pull
850 git add .
851 git comit -m "lab3 Finished"
852 git commit -m "lab3 Finished"
853 git push
854 bash --version
855 date
856 echo "Hello world"
857 uname -a
858 history
uchiha@light:~$ !856
echo "Hello world"
Hello world
uchiha@light:~$ !!
echo "Hello world"
Hello world
uchiha@light:~$ echo "hello"
hello
uchiha@light:~$ !!world
echo "hello"world
helloworld
uchiha@light:~$
```

Practice 4: My first shell script



```
Tilix: uchiha@light: ~
1: uchiha@light: ~
uchiha@light:~$ bash ~/cis106/scripts/
/home/uchiha/cis106/scripts/: /home/uchiha/cis106/scripts/: Is a directory
uchiha@light:~$ bash ~/cis106/scripts/hello.sh
Hello world
I am learning linux
this is my first shell script
uchiha@light:~$
```

Practice 5: Using man

```

uchiha@light:~$ free giga

Usage:
  free [options]

Options:
  -b, --bytes          show output in bytes
  --kilo               show output in kilobytes
  --mega               show output in megabytes
  --giga               show output in gigabytes
  --tera               show output in terabytes
  --peta               show output in petabytes
  -k, --kibi           show output in kibibytes
  -m, --mebi           show output in mebibytes
  -g, --gibi           show output in gibibytes
  --tebi               show output in tebibytes
  --pebi               show output in pebibytes
  -h, --human          show human-readable output
  --si                 use powers of 1000 not 1024
  -l, --lohi           show detailed low and high memory statistics
  -t, --total          show total for RAM + swap
  -s N, --seconds N    repeat printing every N seconds
  -c N, --count N      repeat printing N times, then exit
  -w, --wide           wide output

  --help              display this help and exit
  -V, --version        output version information and exit

For more details see free(1).
uchiha@light:~$ free --giga

```

	total	used	free	shared	buff/cache	available
Mem:	16	2	9	1	4	11
Swap:	2	0	2			

```

uchiha@light:~$

```

Practice 6: Using help

```

1/1  +  [?] [x]  Tilix: uchiha@light: ~
1: uchiha@light: ~
uchiha@light:~$ whatis ls
ls (1) - list directory contents
uchiha@light:~$ whatis apt
apt (8) - command-line interface
uchiha@light:~$ whatis sudo
sudo (8) - execute a command as another user
uchiha@light:~$

```

Practice 7: Using cheat

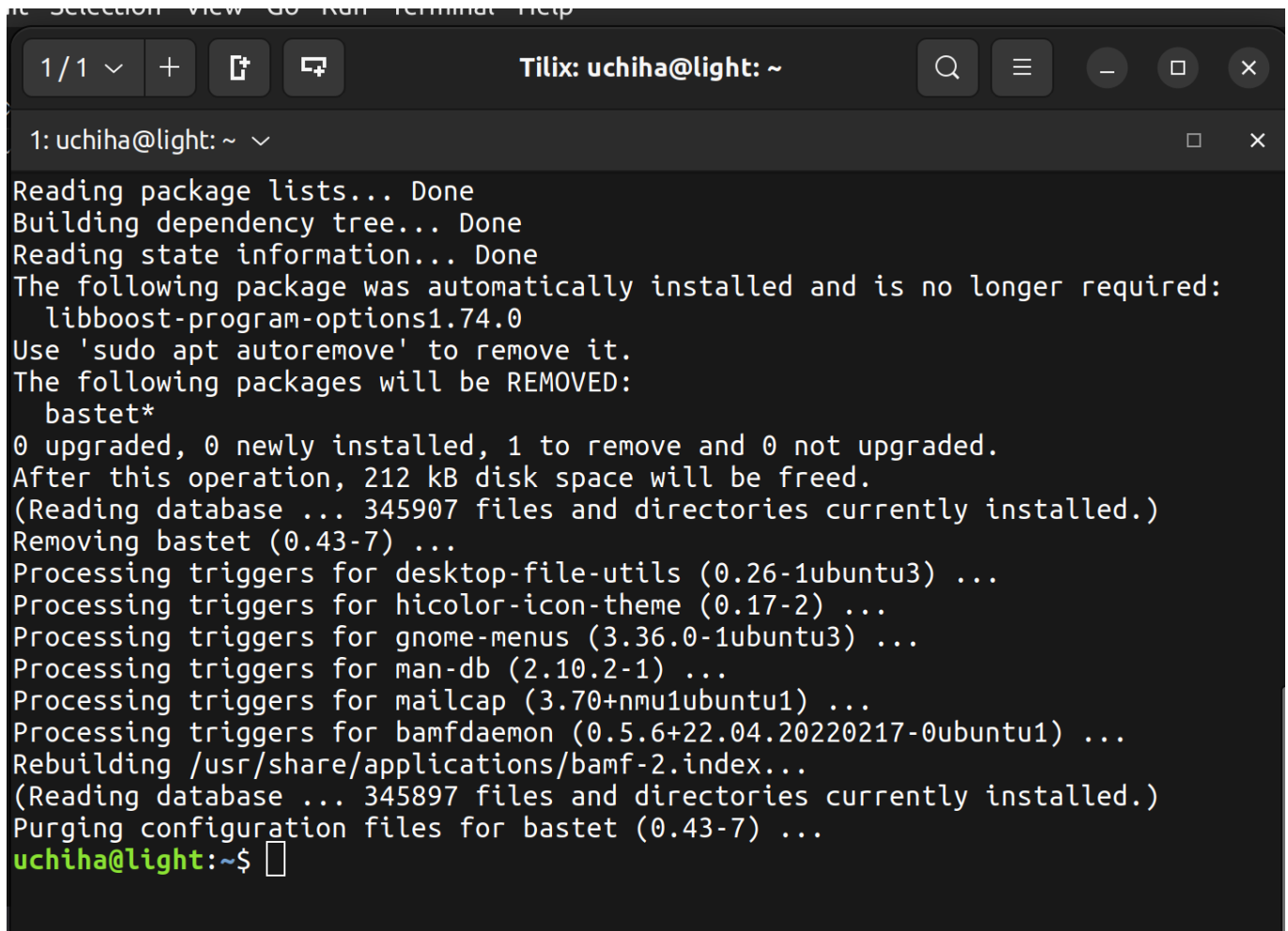
```

1/1  +  [?] [x]  Tilix: uchiha@light: ~
1: uchiha@light: ~
uchiha@light:~$ sudo apt install python3-pip
[sudo] password for uchiha:
Sorry, try again.
[sudo] password for uchiha:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
python3-pip is already the newest version (22.0.2+dfsg-1ubuntu0.4).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
uchiha@light:~$ cheat tar | pygmentize
Command 'cheat' not found, but can be installed with:
sudo snap install cheat

uchiha@light:~$

```

Practice 1: Managing software

A terminal window titled 'Tilix: uchiha@light: ~' showing the output of an apt command. The window has a dark theme and standard window controls. The terminal output shows the process of removing the 'bastet' package, including reading package lists, building a dependency tree, and purging configuration files. The prompt 'uchiha@light:~\$' is visible at the bottom.

```
1: uchiha@light: ~  
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-options1.74.0  
Use 'sudo apt autoremove' to remove it.  
The following packages will be REMOVED:  
  bastet*  
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.  
After this operation, 212 kB disk space will be freed.  
(Reading database ... 345907 files and directories currently installed.)  
Removing bastet (0.43-7) ...  
Processing triggers for desktop-file-utils (0.26-1ubuntu3) ...  
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+nmu1ubuntu1) ...  
Processing triggers for bamfdaemon (0.5.6+22.04.20220217-0ubuntu1) ...  
Rebuilding /usr/share/applications/bamf-2.index...  
(Reading database ... 345897 files and directories currently installed.)  
Purging configuration files for bastet (0.43-7) ...  
uchiha@light:~$
```

installing Flatpack

```
1/1  +  [?]  [?]  Tilix: uchiha@light: ~  [Q]  [≡]  [–]  [□]  [×]

1: uchiha@light: ~  [□]  [×]

bastet*
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.
After this operation, 212 kB disk space will be freed.
(Reading database ... 345907 files and directories currently installed.)
Removing bastet (0.43-7) ...
Processing triggers for desktop-file-utils (0.26-1ubuntu3) ...
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+nmu1ubuntu1) ...
Processing triggers for bamfdaemon (0.5.6+22.04.20220217-0ubuntu1) ...
Rebuilding /usr/share/applications/bamf-2.index...
(Reading database ... 345897 files and directories currently installed.)
Purging configuration files for bastet (0.43-7) ...
uchiha@light:~$ sudo apt install flatpak
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
flatpak is already the newest version (1.12.7-1).
The following package was automatically installed and is no longer required:
  libboost-program-options1.74.0
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
uchiha@light:~$
```