

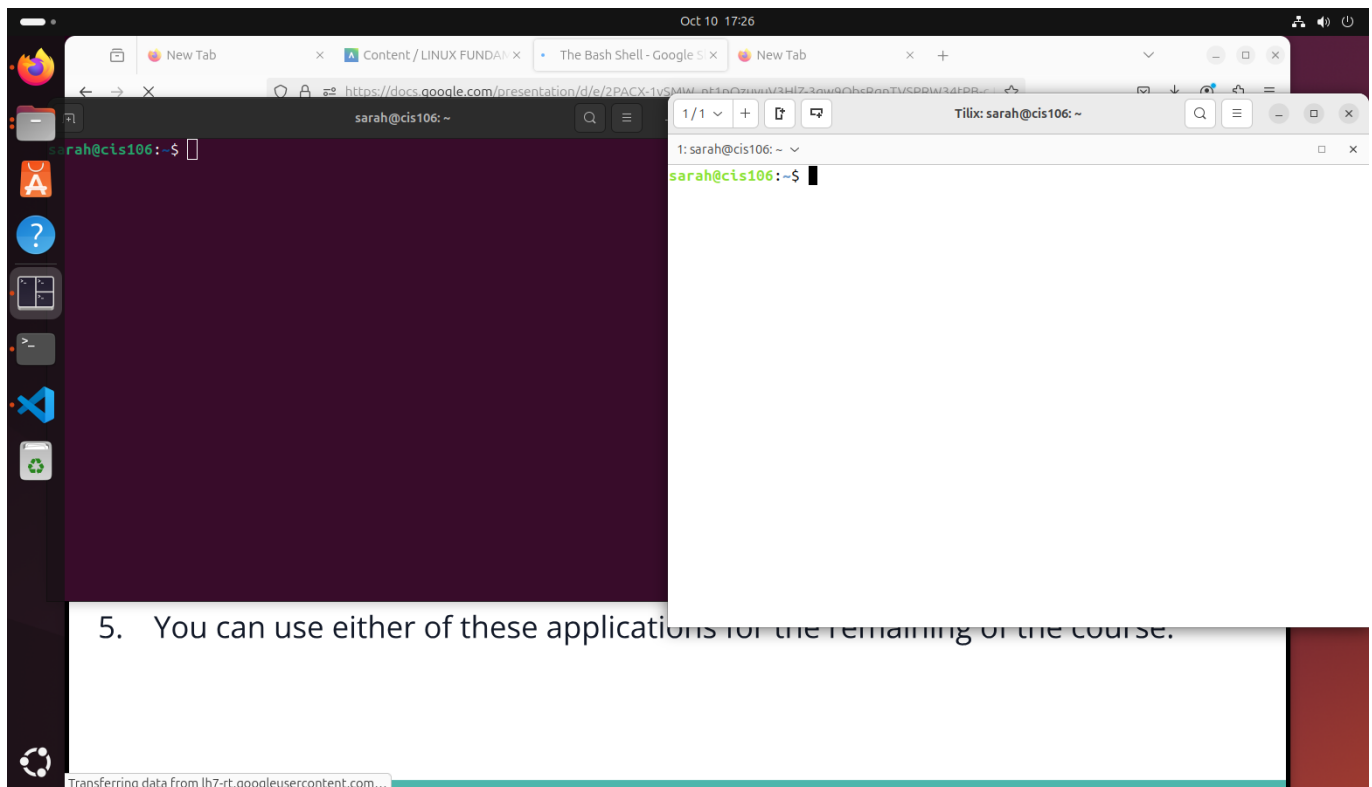
Week report 3

completed work Week 3

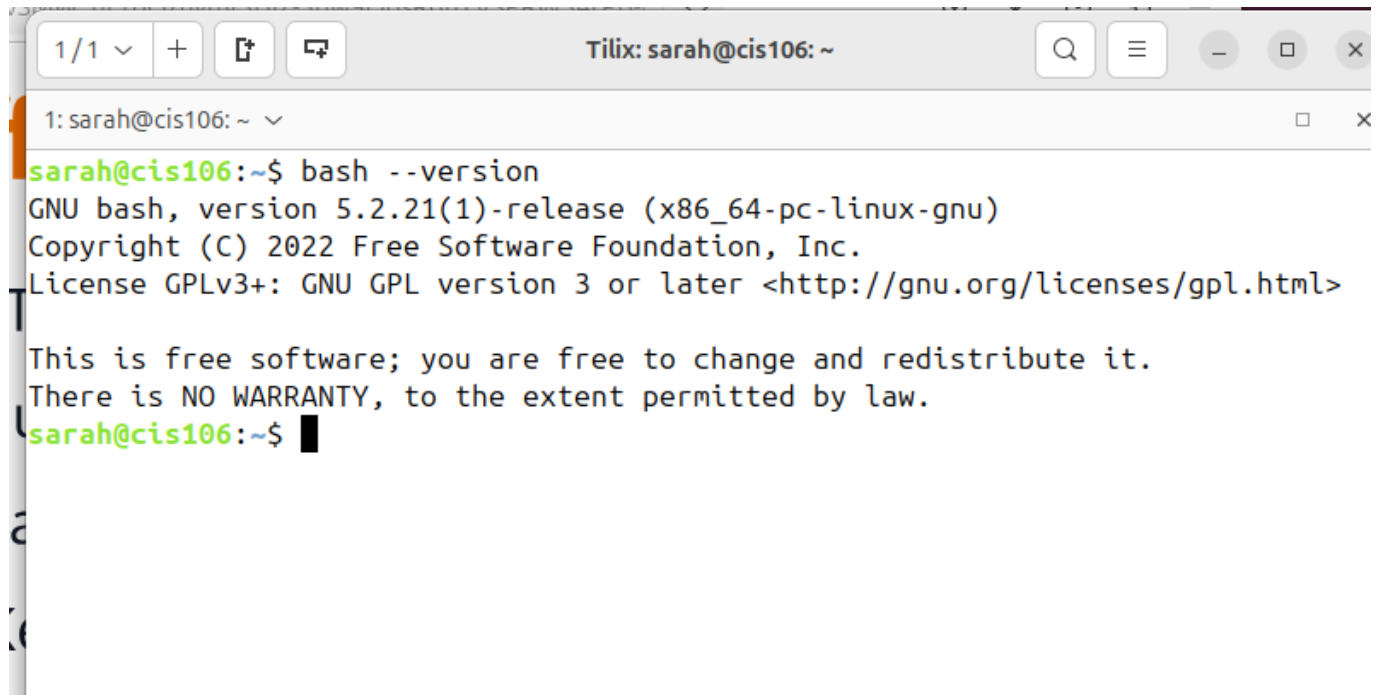
- [Lab3](#)
- [Notes3](#)
- [Managing software Cheat sheet](#)

Practice

Practice 1



Practice 2



```
1/1  +  [?]  [?]  Tilix: sarah@cis106: ~  [Q]  [≡]  [–]  [□]  [X]
1: sarah@cis106: ~  [□]  [X]
sarah@cis106:~$ 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.
sarah@cis106:~$ █
```

Practice 3

```
1/1  +  [icon] [icon]  Tilix: sarah@cis106: ~  [Q] [≡]

1: sarah@cis106: ~  v
102  clear
103  date
104  echo "helloworld"
105  uname -a
106  history
sarah@cis106:~$
sarah@cis106:~$ !59
curl -s https://cis106.com/assets/scripts/lab2_system_info.sh | bash
Basic System Information
-----
HOST:      cis106
JSR:      sarah
WSY:      wayland
KRN:      6.8.0-45-generic
HOST:      cis106
RAM:      3.8Gi
CPU:      2
DISK:      49G
sarah@cis106:~$ echo "hello"
hello
sarah@cis106:~$ !! world
echo "hello" world
hello world
sarah@cis106:~$ █
THIS FOR THE REMAINING OF THE COURSE.
```

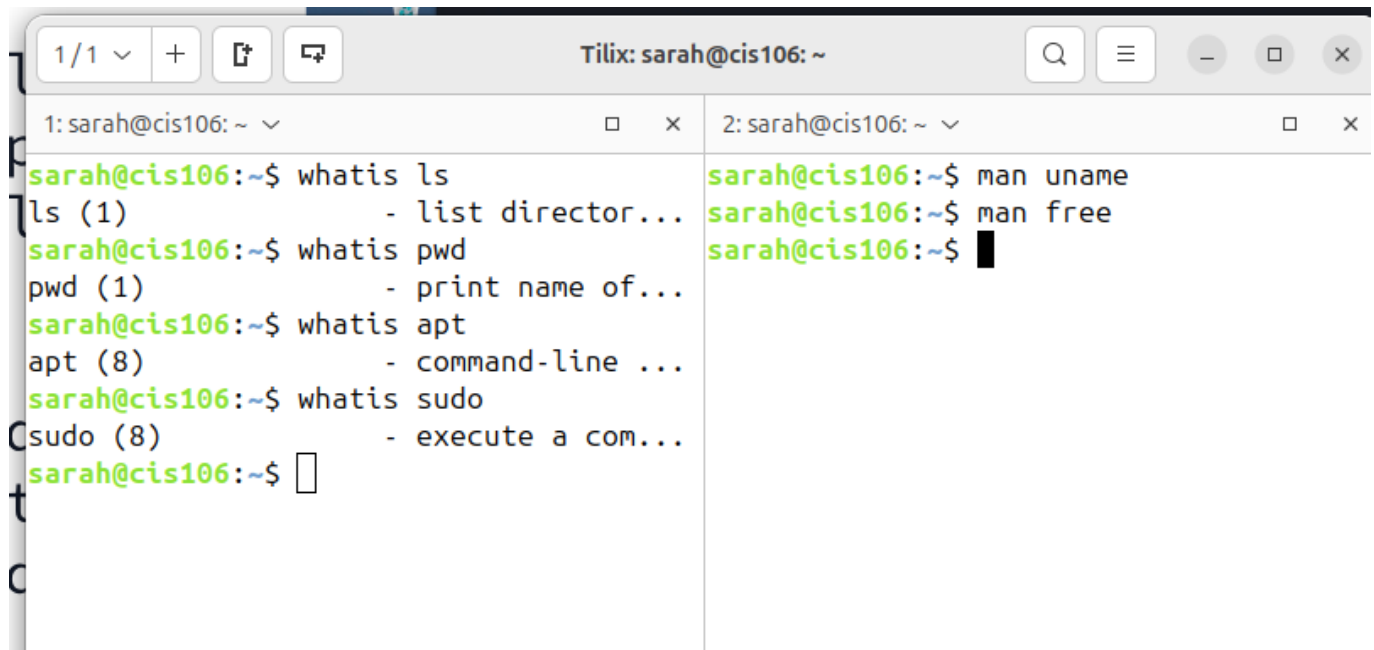
Practice 4

```
1/1 + [Tilix: sarah@cis106: ~] Q ≡
1: sarah@cis106: ~
sarah@cis106:~$ bash ~/scripts/hello.sh
bash: /home/sarah/scripts/hello.sh: No such file or directory
sarah@cis106:~$ bash ~/Scripts/hello.sh
hello world
i am learning linux
this is my first script
sarah@cis106:~$
```

Practice 5

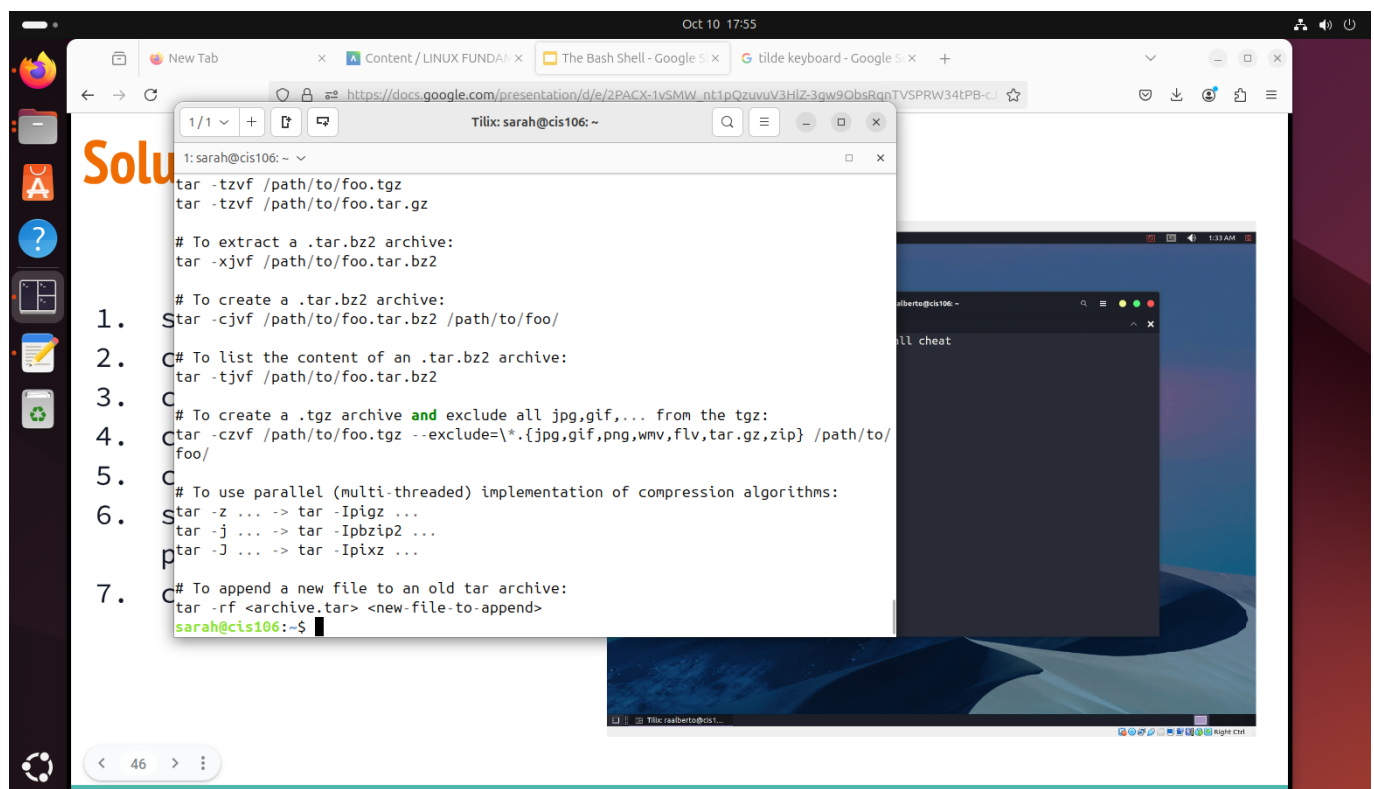
```
1/1 + [Tilix: sarah@cis106: ~] Q ≡ - □ ×
1: sarah@cis106: ~ 2: sarah@cis106: ~ □ ×
sarah@cis106:~$ uname -s
Linux
sarah@cis106:~$ uname -n
cis106
sarah@cis106:~$ uname -io
x86_64 GNU/Linux
sarah@cis106:~$ man date
sarah@cis106:~$ man df
sarah@cis106:~$ man free
sarah@cis106:~$ man clear
sarah@cis106:~$ man history
sarah@cis106:~$ free --giga
              total          used
 free    shared buff/cache  availab
le
Mem:      0         0         1      2
1
Swap:     3         4         0
sarah@cis106:~$
sarah@cis106:~$ manuname
manuname: command not found
sarah@cis106:~$ man uname
sarah@cis106:~$
```

Practice 6



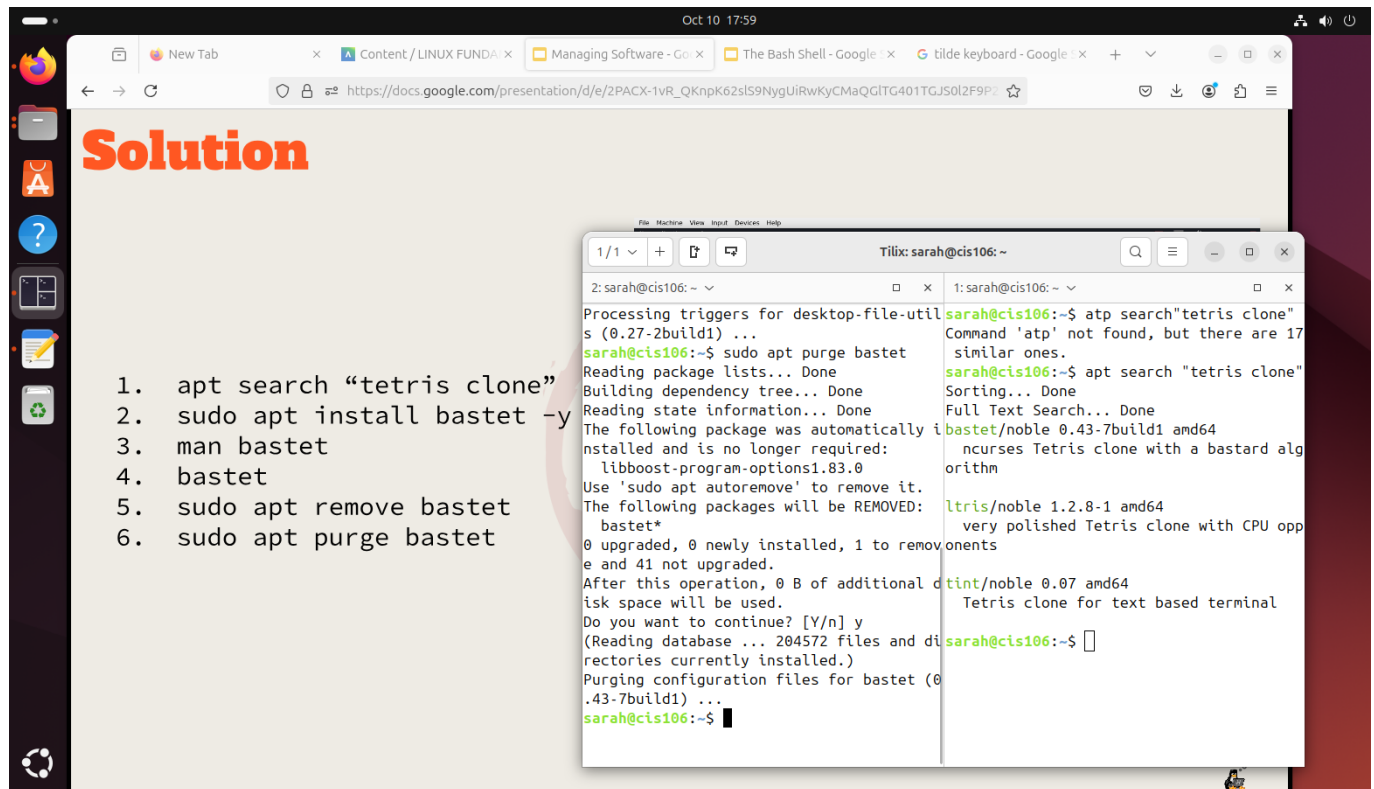
```
1: sarah@cis106: ~  
sarah@cis106:~$ whatis ls  
ls (1) - list director...  
sarah@cis106:~$ whatis pwd  
pwd (1) - print name of...  
sarah@cis106:~$ whatis apt  
apt (8) - command-line ...  
sarah@cis106:~$ whatis sudo  
sudo (8) - execute a com...  
sarah@cis106:~$  
2: sarah@cis106: ~  
sarah@cis106:~$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

Practice 7



```
1: sarah@cis106: ~  
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/  
1. S  
2. C # To list the content of an .tar.bz2 archive:  
tar -tjvf /path/to/foo.tar.bz2  
3. C  
4. C # 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/  
5. C  
6. S # To use parallel (multi-threaded) implementation of compression algorithms:  
tar -z ... -> tar -Ipigz ...  
tar -j ... -> tar -Ipbzip2 ...  
tar -J ... -> tar -Ipixz ...  
7. C  
# To append a new file to an old tar archive:  
tar -rf <archive.tar> <new-file-to-append>  
sarah@cis106:~$
```

Practice 8



Practice 9

