

# Week Report 3

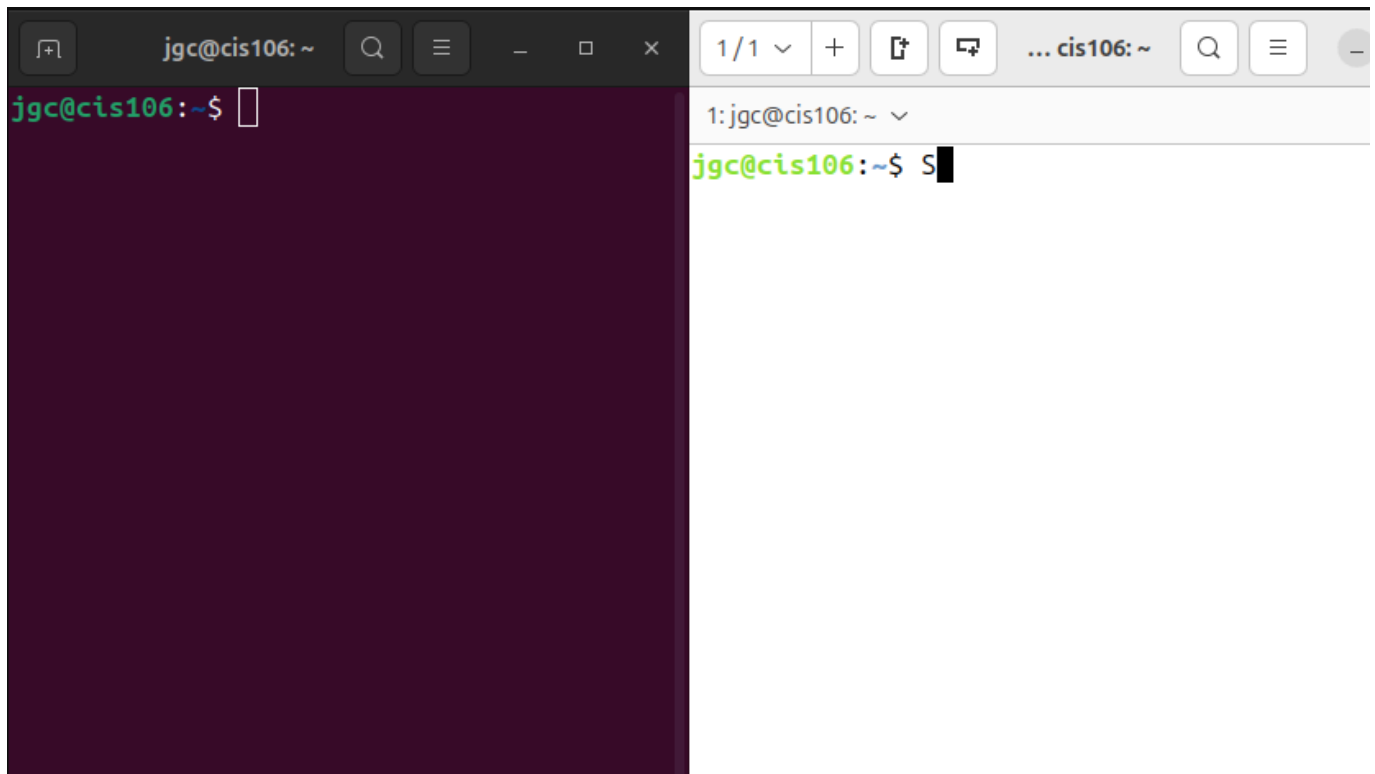
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## Completed Work Week 3

- [Lab3](#)
- [Notes3](#)
- [Managing Software Cheat Sheet](#)

## Practice

### Practice 1



### Practice 2

```
1/1 v + [ ] [ ] Tilix: jgc@cis106: ~ [ ] [ ] [ ] [ ] [ ]
1:jgc@cis106: ~ v
jgc@cis106:~$ bash --version
GNU bash, version 5.2.21(1)-release (aarch64-unknown-linux-gnu)
Copyright (C) 2022 Free Software Foundation, Inc.
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This is free software; you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
jgc@cis106:~$ [ ]
```

### Practice 3

```
1/1 v + [ ] [ ] Tilix: jgc@cis106: ~ [ ] [ ] [ ] [ ] [ ]
1:jgc@cis106: ~ v
jgc@cis106:~$ !!85
history5985
history5985: command not found
jgc@cis106:~$ !85
echo 'hello world'
hello world
jgc@cis106:~$ echo 'hello'
hello
jgc@cis106:~$ !! world
echo 'hello' world
hello world
jgc@cis106:~$ [ ]
```

```
The Bash Shell - Google Slides + [ ] [ ] [ ] [ ] [ ]
https://docs.google.com/presentation/d/e/2PACX-1v [ ] [ ] [ ] [ ] [ ]
```

### Practice 4

```
#!/bin/bash
echo 'hello world'
echo 'I am learning linux'
echo 'this is my first script'
```

## Practice 5

```
1:jgc@cis106: ~ ▾
```

UNAME(1)	User Commands	UNAME(1)
<b>NAME</b> uname - print system information		
<b>SYNOPSIS</b> uname [OPTION]...		
<b>DESCRIPTION</b> Print certain system information. With no OPTION, same as -s.		

```
Manual page uname(1) line 1 (press h for help or q to quit)
```

```
2:jgc@cis106: ~ ▾
aarch64 GNU/Linux
jgc@cis106:~$ uname -io
aarch64 GNU/Linux
jgc@cis106:~$ man date
jgc@cis106:~$ man df
jgc@cis106:~$ man free
jgc@cis106:~$ man clear
jgc@cis106:~$ man history
jgc@cis106:~$ free --giga
      total        used        free      shared  buff/cache   available
Mem:      4          1          0           0          1          2
Swap:      4          0          4           0          0          0
jgc@cis106:~$
```

## Practice 6

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

## Practice 7

```
1/1 + [T] [C] Tilix: jgc@cis106: ~ [Q] [≡] [−] [□] [×]
1:jgc@cis106: ~ ▢ × 2:jgc@cis106: ~ ▢ ×
jgc@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 -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

jgc@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 -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
```

## Practice 1 - Managing Software

```

1/1 v + [icons] Tilix: jgc@cis106: ~
1:jgc@cis106: ~ x 2:jgc@cis106: ~ x
(Reading database ... 183910 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) ..
.
jgc@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 55 not upgraded.
After this operation, 0 B of additional disk space will be used.
Do you want to continue? [Y/n] y
(Reading database ... 183900 files and directories currently installed.)
Purging configuration files for bastet (0.43-7build1) ...
jgc@cis106:~$

jgc@cis106:~$ apt search "tetris clone"
Sorting... Done
Full Text Search... Done
bastet/noble 0.43-7build1 arm64
  ncurses Tetris clone with a bastard algorithm
ltris/noble 1.2.8-1 arm64
  very polished Tetris clone with CPU opponents
tint/noble 0.07 arm64
  Tetris clone for text based terminal
jgc@cis106:~$

```

## Practice 3 - Managing Software

```

1/1 v + [icons] Tilix: jgc@cis106: ~
1:jgc@cis106: ~ x
jgc@cis106:~$ snap search "tetris clone"
Name      Version Publisher Notes Summary
omtris    1.0      kz6fittycent -      Poor Man's Tetris Clone
jgc@cis106:~$ sudo snap install tetris-in-racket
error: snap "tetris-in-racket" is not available on stable for this architecture (arm64) but exists
on other architectures (amd64, i386).
jgc@cis106:~$ man tetris-in-racket
No manual entry for tetris-in-racket
jgc@cis106:~$ tetris-in-racket --help
tetris-in-racket: command not found
jgc@cis106:~$ sudo snap remove tetris-in-racket
snap "tetris-in-racket" is not installed
jgc@cis106:~$

```