

# Week Report 3

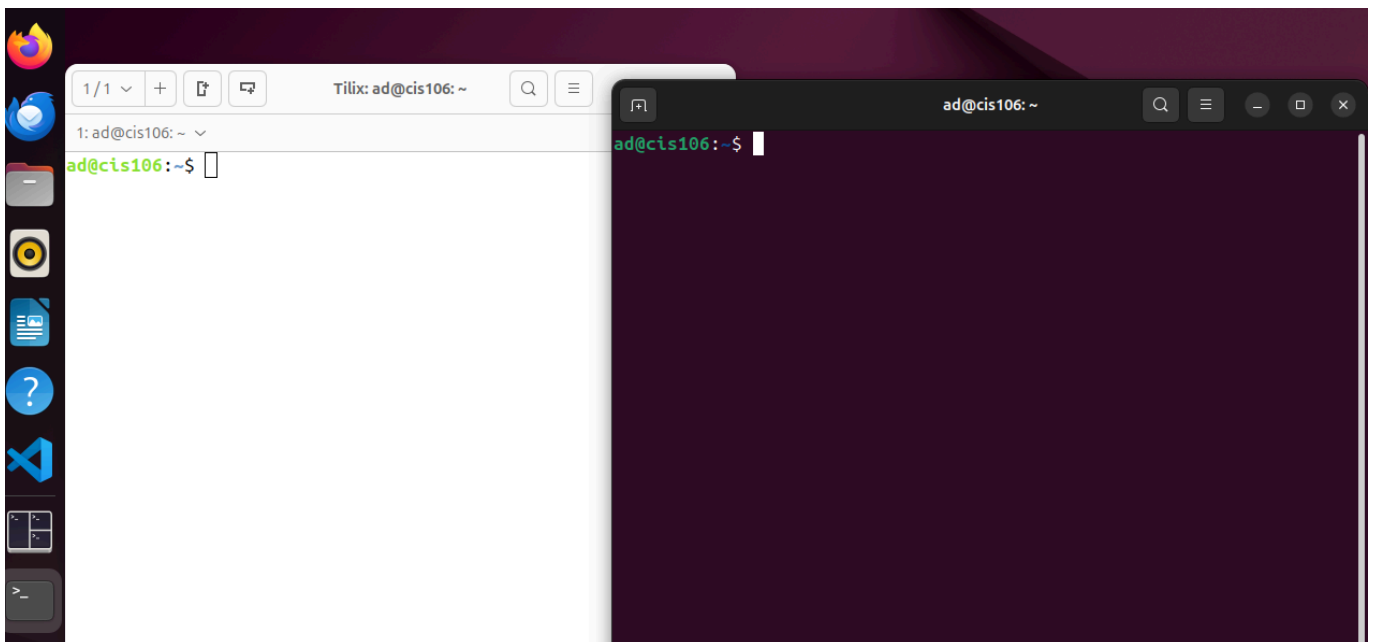
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## Completed work Week 3

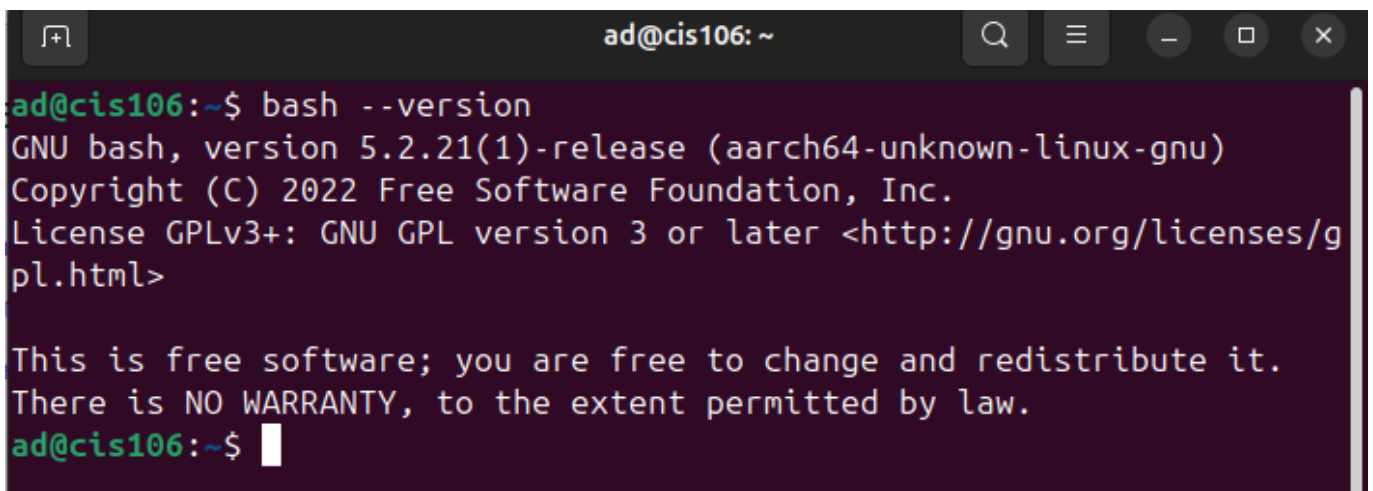
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- [What is Shell](#)
- [Managing Software](#)

## Practice

### Practice 1



### Practice 2



### Practice 3

```
ad@cis106: ~  
109 history  
110 59  
111 git commit -m 'lab2 finish'  
112 clear  
113 date  
114 echo "hello world"  
115 uname -a  
116 history  
117 git commit -m 'lab2 finish'  
118 59  
119 clear  
120 date  
121 echo "hello world"  
122 uname -a  
123 history  
ad@cis106:~$ !107  
echo "hello world"  
hello world  
ad@cis106:~$ echo "hello"  
hello  
ad@cis106:~$ !! world  
echo "hello" world  
hello world  
ad@cis106:~$
```

#### Practice 4

```
ad@cis106: ~  
ad@cis106:~$ bash ~/Scripts/hello.sh  
bash: /home/ad/Scripts/hello.sh: No such file or directory  
ad@cis106:~$ bash ~/Scripts/hello.sh  
hello world  
I am learning linux  
This is my first shell script  
ad@cis106:~$
```

#### Practice 5

1: ad@cis106: ~ ▾

2: ad@cis106: ~ ▾

JN...EUser CommaUN...E(1)

NAME

uname - print sys-  
tem information

SYNOPSIS

uname [OPTION]...

DESCRIPTION

Print certain sys-  
tem information.  
With no OPTION,  
same as -s.

-a, --all

print all  
informa-  
tion, in  
the follow-  
ing order,  
except omit  
-p and -i  
if unknown:

-s, --kernel-name

print the  
kernel name

ad@cis106:~\$ uname -s

Linux

ad@cis106:~\$ uname -n

cis106

ad@cis106:~\$ uname -io

aarch64 GNU/Linux

ad@cis106:~\$ man date

ad@cis106:~\$ man df

ad@cis106:~\$ man free

ad@cis106:~\$ man clear

ad@cis106:~\$ man history

ad@cis106:~\$ man free

ad@cis106:~\$ man clear

ad@cis106:~\$ man history

ad@cis106:~\$ free --giga

total used free shared buff/cache

available

Mem: 4 2 0 0 1

1

Swap: 4 0 4

ad@cis106:~\$

Practice 6

1: ad@cis106: ~ ▾

2: ad@cis106: ~ ▾

ad@cis106:~\$ whatis pwd

pwd (1) - p...

ad@cis106:~\$ whatis apt

apt (8) - c...

ad@cis106:~\$ whatis sudo

sudo (8) - e...

ad@cis106:~\$

ad@cis106:~\$

##Practice 7

```

1: ad@cis106: ~ ▾
# 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 -czf /path/to/foo.tgz /path/to/foo/
tar -czf /path/to/foo.tar.gz /path/to/foo/

# To list the content of an .tgz or .tar.gz archive:
tar -tzf /path/to/foo.tgz
tar -tzf /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 -czf /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>
ad@cis106:~$ █

```

```

2: ad@cis106: ~ ▾
ad@cis106:~$ █

```

## Practice 1- Managing Software

1: ad@cis106: ~ ▾	2: ad@cis106: ~ ▾
<pre> ad@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 ad@cis106:~\$ █ </pre>	<pre> Processing triggers for desktop-file-utils (0.27-2build1) ... ad@cis106:~\$ sudo apt purge bastet Reading package lists... 10Reading package list s... Done Building dependency tree...Building dependency tree...Building dependency tree...Building dependency tree... Done Reading state information..Reading state information..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 28 not upgraded. After this operation, 0 B of additional disk space will be used. Do you want to continue? [Y/n] y (Reading database ... 262818 files and directories currently installed.) Purging configuration files for bastet (0.43-7build1) ... ad@cis106:~\$ █ </pre>

## Practice 3- Managing Software

```
ad@cis106: ~  
ad@cis106:~$ snap search "tetris clone"  
Name      Version  Publisher    Notes  Summary  
pmtris    1.0      kz6fittycent -      Poor Man's Tetris Clone  
ad@cis106:~$ sudo snap install  
[sudo] password for ad:  
error: the required argument `<snap> (at least 1 argument)` was not provided  
ad@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).  
ad@cis106:~$ sudo snap remove tetris-in-racket  
snap "tetris-in-racket" is not installed  
ad@cis106:~$
```