

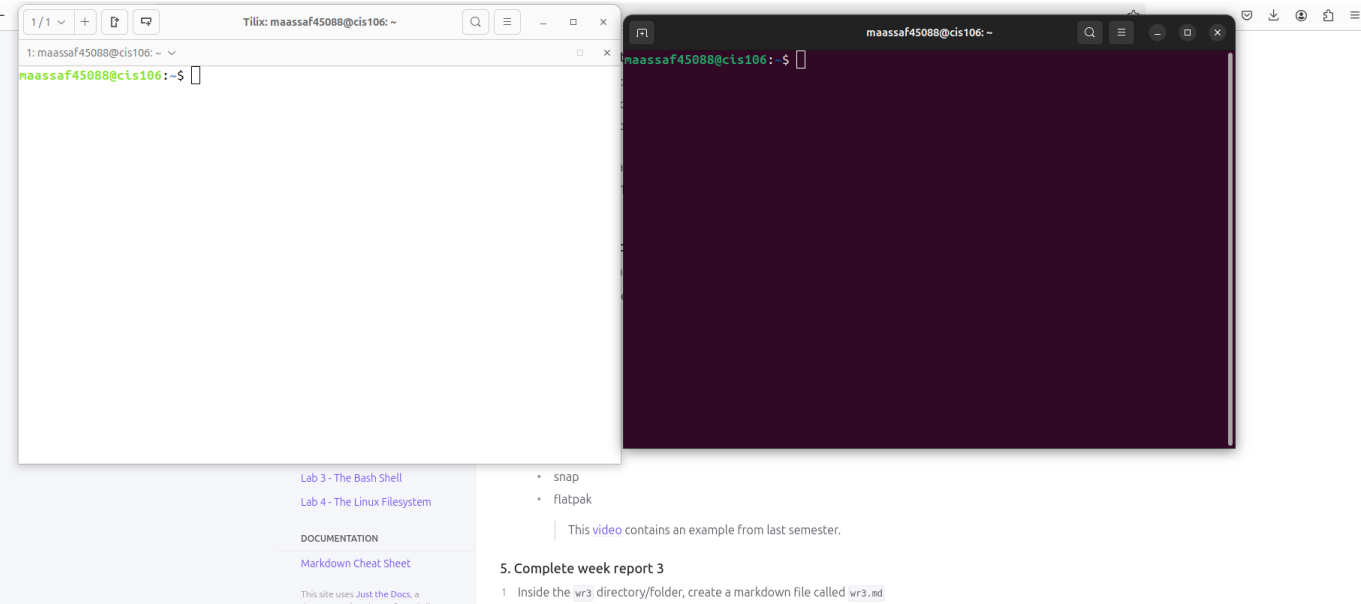
Week Repott #3

Completed Work Week #3

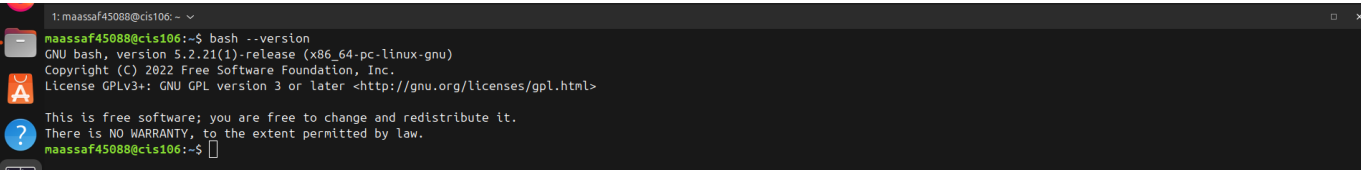
- [lab3](#)
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- [What is a shell](#)
- [Managing Software](#)

Practice

Practice 1



Practice 2



Practice 3

```
1: maassaf45088@cis106: ~  
129 ls -t ~/Documents  
130 ls -S ~/Documents  
131 ls -r ~/Documents  
132 ls -R ~/Documents  
133 clear  
134 pwd  
135 cd Downloads/  
136 pwd  
137 ls  
138 ls 86  
139 cd /home/scripts  
140 cd /$HOME/scripts  
141 ./pizza.sh  
142 clear  
143 cd  
144 pwd  
145 cd Downloads/  
146 pwd /home/rap/Downloads  
147 ls 86  
148 cd  
149 cd /home/rap/Downloads/schoolwork/  
150 bash --version  
151 clear  
152 date  
153 echo "hello world"  
154 uname -a  
155 history  
maassaf45088@cis106:~$ !59  
date +%d-%m-%Y :A-%Z"  
10-10-2024 :A-EDT  
maassaf45088@cis106:~$ echo "hello"  
hello  
maassaf45088@cis106:~$ !! world  
echo "hello" world  
hello world  
maassaf45088@cis106:~$
```

Practice 4

```
1: maassaf45088@cis106: ~  
maassaf45088@cis106:~$ bash ~/scripts/hell.sh  
bash: /home/maassaf45088/scripts/hell.sh: No such file or directory  
maassaf45088@cis106:~$ bash ~/Scripts/hell.sh  
bash: /home/maassaf45088/Scripts/hell.sh: No such file or directory  
maassaf45088@cis106:~$ bash ~/Scripts/hello.sh  
bash: /home/maassaf45088/Scripts/hello.sh: No such file or directory  
maassaf45088@cis106:~$ bash ~/Scripts/hello.sh  
hello world  
I am learning linux  
this is my first script  
maassaf45088@cis106:~$
```

Practice 5

```
1: maassaf45088@cis106: ~  
SYNOPSIS  
uname [OPTION]...  
DESCRIPTION  
Print certain system information. With no OPTION, same as -s.  
-a, --all  
    print all information, in the following order, except omit -p and -i if unknown:  
-s, --kernel-name  
    print the kernel name  
-n, --nodename  
    print the network node hostname  
-r, --kernel-release  
    print the kernel release  
-v, --kernel-version  
    print the kernel version  
-m, --machine  
    print the machine hardware name  
-p, --processor  
    print the processor type (non-portable)  
-i, --hardware-platform  
    print the hardware platform (non-portable)  
-o, --operating-system  
    print the operating system  
Manual page uname(1) line 5 (press h for help or q to quit)
```

```
2: maassaf45088@cis106: ~  
maassaf45088@cis106:~$ uname -s  
Linux  
maassaf45088@cis106:~$ uname -n  
cis106  
maassaf45088@cis106:~$ uname -io  
x86_64 GNU/Linux  
maassaf45088@cis106:~$ uname i0  
uname: extra operand 'i0'  
Try 'uname --help' for more information.  
maassaf45088@cis106:~$ uname -io  
x86_64 GNU/Linux  
maassaf45088@cis106:~$ man date  
maassaf45088@cis106:~$ man df  
maassaf45088@cis106:~$ man free  
maassaf45088@cis106:~$ man clear  
maassaf45088@cis106:~$ man history  
maassaf45088@cis106:~$ free -giga  
              total    used         free      shared  buff/cache   available  
Mem:           4         3           0          0           1           0  
Swap:          4         0           3  
maassaf45088@cis106:~$
```

Practice 6

```
Oct 3 18:11
Tilix: maassaf45088@cis106: ~

1: maassaf45088@cis106: ~
Print certain system information. With no OPTION, same as -s.

-a, --all                print all information, in the following order,
                        except omit -p and -i if unknown option
-n:
-s, --kernel-name        print the kernel name
-n, --nodename           print the network node hostname
-r, --kernel-release     print the kernel release
-v, --kernel-version     print the kernel version
-m, --machine            print the machine hardware name
-p, --processor          print the processor type (non-portable)
-i, --hardware-platform print the hardware platform (non-portable)
-o, --operating-system   print the operating system
--help                  display this help and exit
--version               output version information and exit

GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
Full documentation <https://www.gnu.org/software/coreutils/using-coreutils.html>
or available locally via: info '(coreutils) uname invocation'

maassaf45088@cis106:~$ whastis uname
Command 'whastis' not found, did you mean:
  command 'whatis' from deb man-db (2.12.0-1)
Try: sudo apt install <deb name>
maassaf45088@cis106:~$

2: maassaf45088@cis106: ~
-h, --help                display this help message and exit
-k, --keep-tokens         change password only if expired
-i, --inactive INACTIVE  set password inactive after expiration
-l, --lock                lock the password of the named account
-n, --mindays MIN_DAYS   set minimum number of days before password
-q, --quiet               quiet mode
-r, --repository REPOSITORY change password in REPOSITORY repository
-R, --root CHROOT_DIR    directory to chroot into
-S, --status              report password status on the named account
-u, --unlock              unlock the password of the named account
-w, --warndays WARN_DAYS set expiration warning days to WARN_DAYS
-x, --maxdays MAX_DAYS  set maximum number of days before password
change to MAX_DAYS

maassaf45088@cis106:~$ whatis passwd
passwd (1) - change user password
passwd (1ssl) - OpenSSL application commands
passwd (5) - the password file
maassaf45088@cis106:~$
```

Practice 7

```
1: maassaf45088@cis106: ~
tar -z ... -> tar -I pigz ...
tar -j ... -> tar -I pbzip2 ...
tar -J ... -> tar -I piz ...

# To append a new file to an old tar archive:
tar -rf <archive.tar> <new-file-to-append>
maassaf45088@cis106:~$ sudo apt install python3-pip
[sudo] password for maassaf45088:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
python3-pip is already the newest version (24.0+dfsg-1ubuntu1).
0 upgraded, 0 newly installed, 0 to remove and 62 not upgraded.
maassaf45088@cis106:~$ pip3 install Pygments
error: externally-managed-environment

× This environment is externally managed
  To install Python packages system-wide, try apt install
  python3-xyz, where xyz is the package you are trying to
  install.

  If you wish to install a non-Debian-packaged Python package,
  create a virtual environment using python3 -m venv path/to/venv.
  Then use path/to/venv/bin/python and path/to/venv/bin/pip. Make
  sure you have python3-full installed.

  If you wish to install a non-Debian packaged Python application,
  it may be easiest to use pipx install xyz, which will manage a
  virtual environment for you. Make sure you have pipx installed.

  See /usr/share/doc/python3.12/README.venv for more information.

note: If you believe this is a mistake, please contact your Python installation or OS distribution provider. You can override this, at the risk of breaking your Python installation or
S, by passing --break-system-packages.
hint: See PEP 668 for the detailed specification.
maassaf45088@cis106:~$
```