

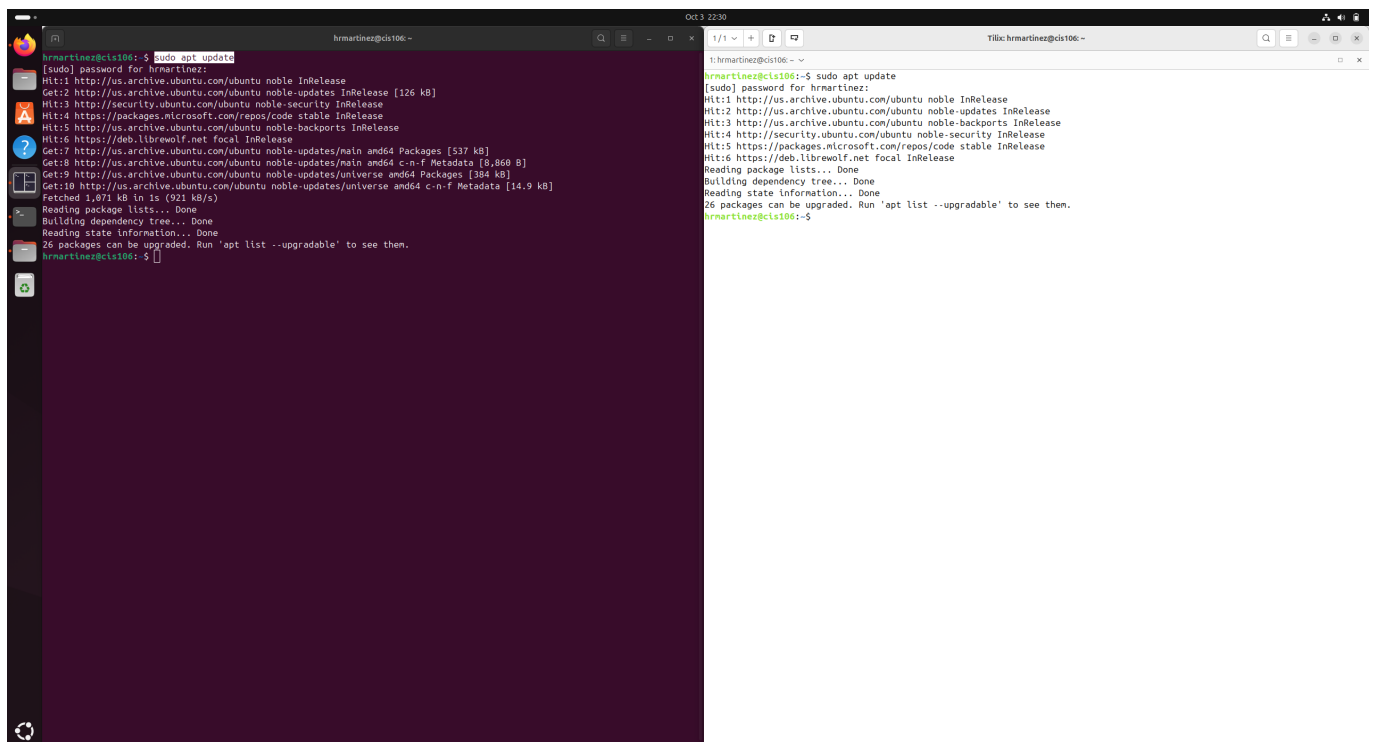
week report 3

Completed work Week 3

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

Pratice

Pratice 1



```
hrmartinez@cis106:~$ sudo apt update
[sudo] password for hrmartinez:
Hit:1 http://us.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://us.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Hit:3 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:4 https://packages.microsoft.com/repos/code stable InRelease
Hit:5 http://us.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:6 https://deb.librewolf.net focal InRelease
Get:7 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [537 kB]
Get:8 http://us.archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [8,868 B]
Get:9 http://us.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [384 kB]
Get:10 http://us.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [14.9 kB]
Fetched 1,071 kB in 1s (921 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
26 packages can be upgraded. Run 'apt list --upgradable' to see them.
hrmartinez@cis106:~$
```

Pratice 2

```
hrmartinez@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.
hrmartinez@cis106:~$
```

Pratice 3

```
hrmartinez@cis106: ~  
69 "i like linux"  
70 echo  
71 i like linux  
72 i like windows  
73 echo "i like linux"  
74 echo -n " i like linux" "i like windows"  
75 echo -e "i like linux\ni like windows\ni like ubuntu"  
76 man -f passwd  
77 man 5 passwd  
78 passwd --help  
79 man echo  
80 man 5 passwd  
81 man 1 passwd  
82 uname --help  
83 clear  
84 cd /etc/apt/sources.list.d/  
85 ls  
86 sudo apt update  
87 cd  
88 sudo apt update  
89 apt list --upgrade  
90 apt list --upgradable  
91 echo "hello", echo "world"  
92 echo  
93 man  
94 man echo  
95 "hello, world"  
96 clear  
97 sudo apt update  
98 clear  
99 sudo apt update  
100 bash --version  
101 clear  
102 date  
103 echo "hello world"  
104 uname -a  
105 history  
106 history echo "hello world"  
107 history echo "hello world" echo "hello"  
108 date  
109 echo "hello world"  
110 uname -a  
111 history  
112 historyworld  
113 date  
114 echo "hello world"  
115 uname -a  
116 history  
hrmartinez@cis106:~$ echo "hello world"!!  
echo "hello world" "hello world"history  
hello world hello worldhistory  
hrmartinez@cis106:~$ echo "hello"  
hello  
hrmartinez@cis106:~$ !!world  
echo "hello"world  
helloworld  
hrmartinez@cis106:~$
```

Pratice 4

```
hrmartinez@cis106:~$ bash scripts/hello.sh  
Hello World  
I am learning Linux  
This is my first shell script  
hrmartinez@cis106:~$
```

Pratice 5

```

1: hrmartinez@cis106: ~
memory in megabytes.
Implies --si.

--giga Display the amount of
memory in gigabytes.
Implies --si.

--tera Display the amount of
memory in terabytes.
Implies --si.

--peta Display the amount of
memory in petabytes.
Implies --si.

-h, --human
Show all output fields
automatically scaled to
shortest three digit
unit and display the
units of print out.
Following units are
used.

B = bytes
Ki = kibibyte
Mi = mebibyte
Gi = gibibyte
Ti = tebibyte
Pi = pebibyte

If unit is missing, and
you have exbibyte of
RAM or swap, the number
is in tebibytes and
columns might not be
aligned with header.

-w, --wide
Switch to the wide
mode. The wide mode
produces lines longer
than 80 characters. In
this mode buffers and
cache are reported in
two separate columns.

Manual page free(1) line 104/223 66% (press h for help or q to quit)

2: hrmartinez@cis106: ~
hrmartinez@cis106:~$ uname -s
Linux
hrmartinez@cis106:~$ uname -n
cis106
hrmartinez@cis106:~$ uname -io
x86_64 GNU/Linux
hrmartinez@cis106:~$ man date
hrmartinez@cis106:~$ man df
hrmartinez@cis106:~$ man free
hrmartinez@cis106:~$ man clear
hrmartinez@cis106:~$ man history
hrmartinez@cis106:~$ free --giga
              total        used        free      shared    buff/cache   available
Mem:           4            2            0           0            1            1
Swap:          4            0            3           0
hrmartinez@cis106:~$

```

Pratice 6

```

Tilix: hrmartinez@cis106: ~
1: hrmartinez@cis106: ~
hrmartinez@cis106:~$ whatis ls
ls (1)                - list directory contents
hrmartinez@cis106:~$ whatis pwd
pwd (1)               - print name of current/working directory
hrmartinez@cis106:~$ whatis apt
apt (8)               - command-line interface
hrmartinez@cis106:~$ whatis sudo
sudo (8)              - execute a command as another user
hrmartinez@cis106:~$

```

Pratice 7

```
1/1 v + T Tili: hrmartinez@cis106: ~  
t: hrmartinez@cis106: ~  
tar -rf <archive.tar> <new-file-to-append>  
hrmartinez@cis106:~$ sudo apt install python3-pip  
[sudo] password for hrmartinez:  
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 3 not upgraded.  
hrmartinez@cis106:~$ pip3 install Pygments --break-system-packages  
Defaulting to user installation because normal site-packages is not writeable  
Requirement already satisfied: Pygments in /usr/lib/python3/dist-packages (2.17.2)  
hrmartinez@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 -xvzf /path/to/foo.tgz  
tar -xvzf /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  
  
# 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/  
  
# To use parallel (multi-threaded) implementation of compression algorithms:  
tar -z ... -> tar -Ipigz ...  
tar -j ... -> tar -Ipbzip2 ...  
tar -J ... -> tar -Ipxz ...  
  
# To append a new file to an old tar archive:  
tar -rf <archive.tar> <new-file-to-append>  
hrmartinez@cis106:~$
```