week report 3

Completed work Week 3

- Lab3
- Notes3 Managing software Cheat Sheets

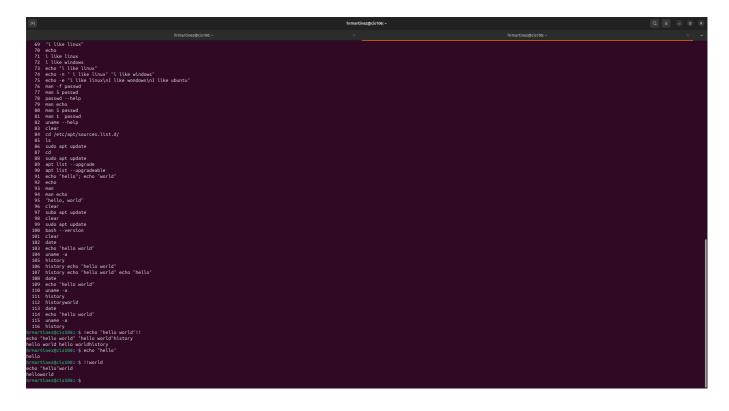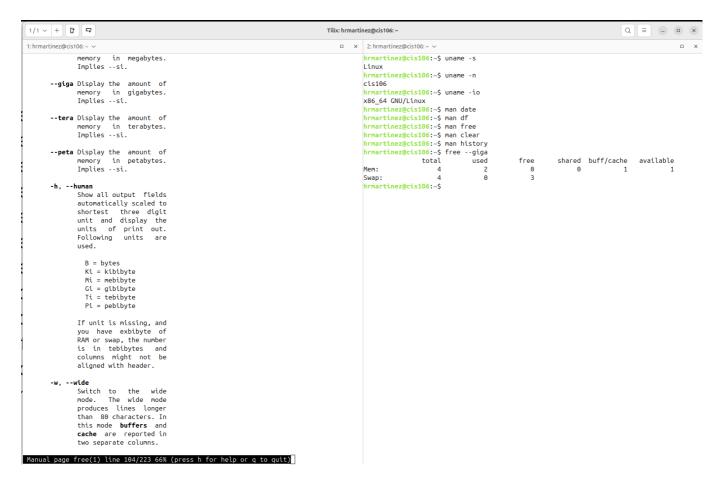## Pratice

Pratice 1

Pratice 2

Pratice 3

Pratice 4


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

Pratice 5

```
                 memory   in  megabytes.            hrmartinez@cis106:~$ uname -s
                 Implies --si.                      Linux
                                                    hrmartinez@cis106:~$ uname -n
       --giga Display the  amount  of               cis106
              memory   in  gigabytes.               hrmartinez@cis106:~$ uname -io
              Implies --si.                         x86_64 GNU/Linux
                                                    hrmartinez@cis106:~$ man date
       --tera Display the  amount  of               hrmartinez@cis106:~$ man df
              memory   in  terabytes.               hrmartinez@cis106:~$ man free
              Implies --si.                         hrmartinez@cis106:~$ man clear
                                                    hrmartinez@cis106:~$ man history
       --peta Display the  amount  of               hrmartinez@cis106:~$ free --giga
              memory   in  petabytes.                             total      used       free    shared buff/cache   available
              Implies --si.                         Mem:              4         2          0         0          1           1
                                                    Swap:             4         0          3
       -h, --human                                  hrmartinez@cis106:~$
              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)
```

Pratice 6


```
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

```
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 -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

# 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 -Ipixz ...

# To append a new file to an old tar archive:
tar -rf <archive.tar> <new-file-to-append>
hrmartinez@cis106:~$
```