Lab 3 Submission

Question 1
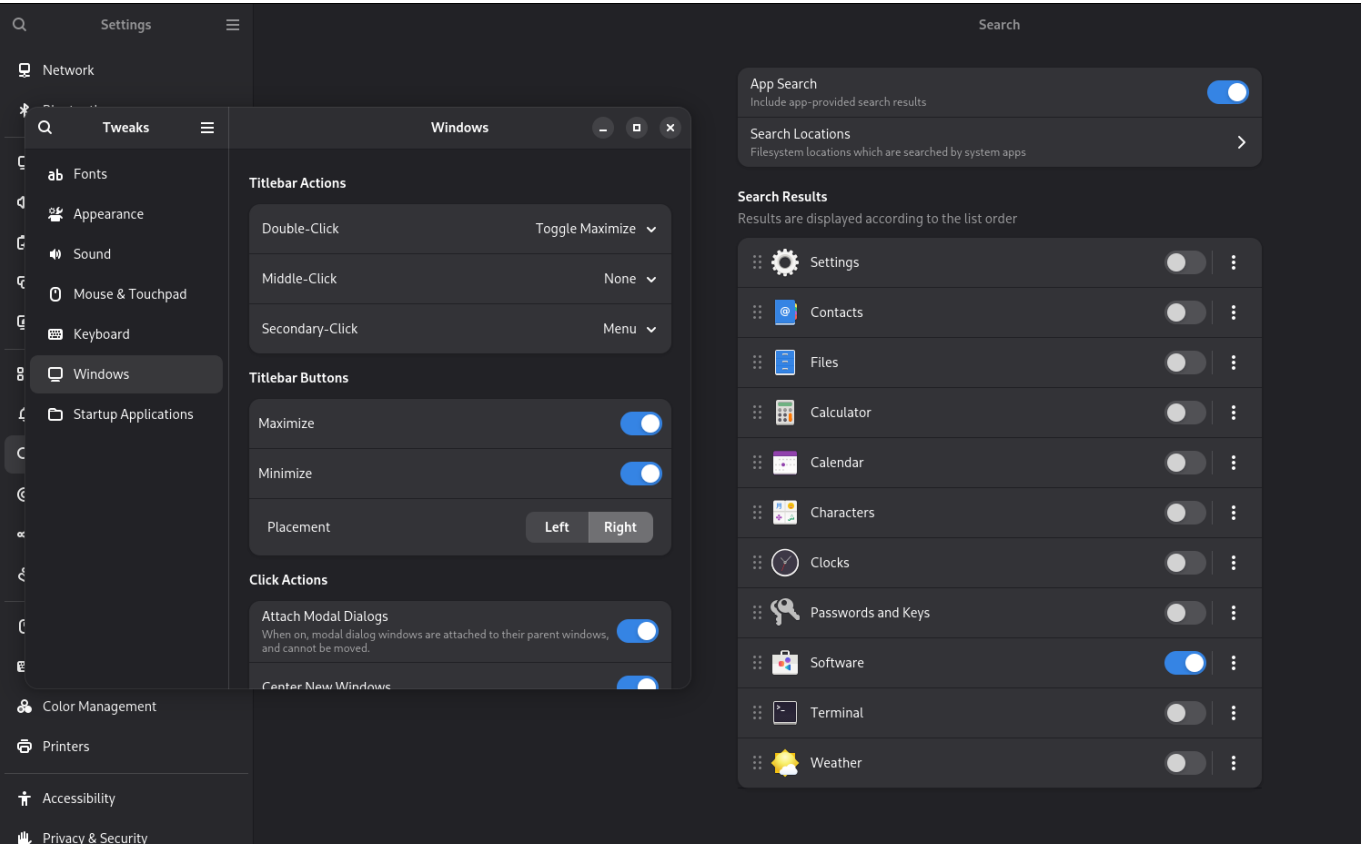
Question 2
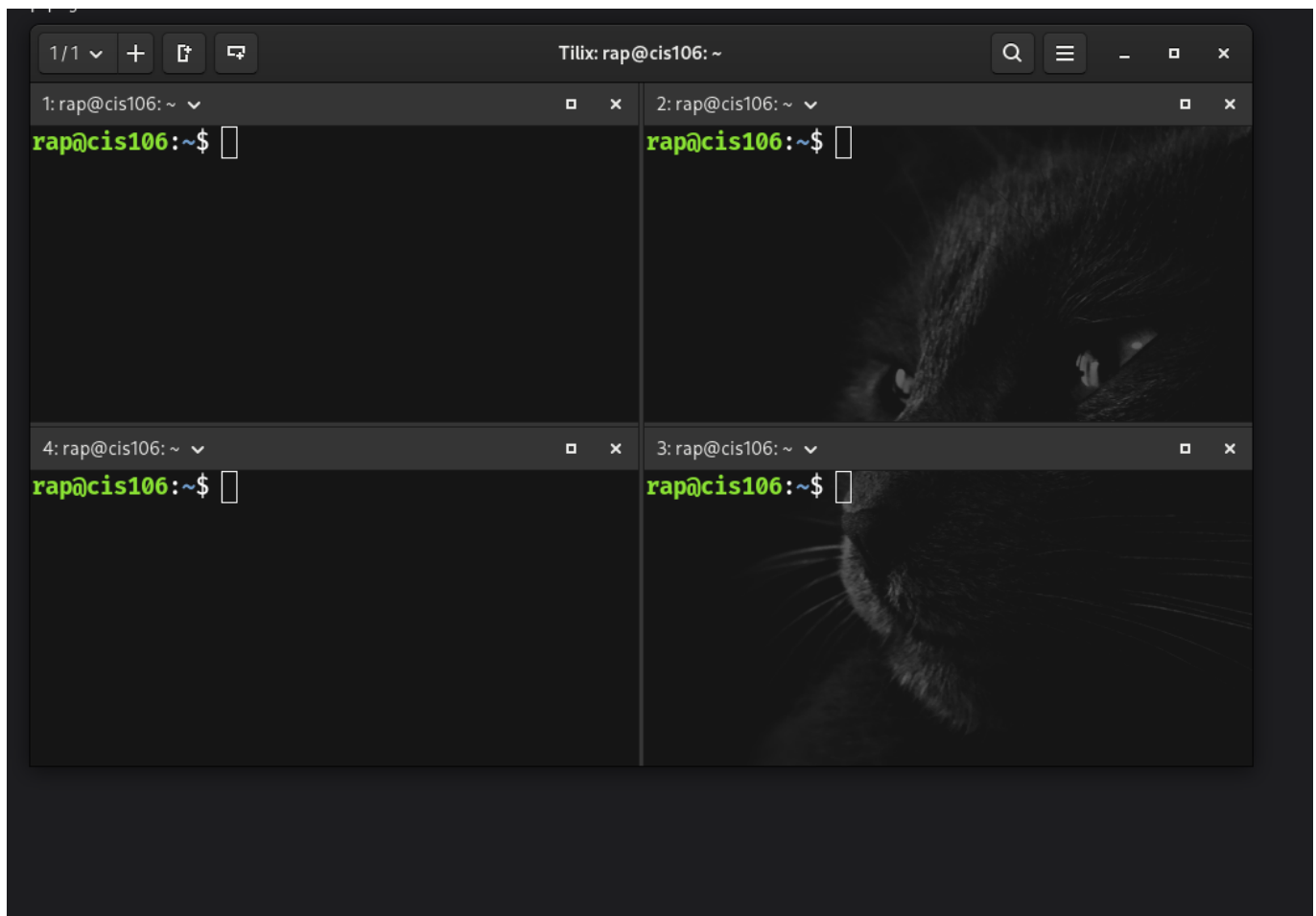
Question 3

Challenge Question

Challenge Question Script Source code:

0. Tldr & Cheat

Tilix: rap@cis106: ~

1: rap@cis106: ~

```
7:2:a00:27ff:febd:1cb7",
                "prefixlen": 64,
                "scope": "global",
                "dynamic": true,
                "mngtmpaddr": true,
                "noprefixroute": true,
                "valid_life_time": 8621
4,
                "preferred_life_time":
14214
        },{
                "family": "inet6",
                "local": "fe80::a00:27f
f:febd:1cb7",
                "prefixlen": 64,
                "scope": "link",
                "noprefixroute": true,
                "valid_life_time": 4294
967295,
                "preferred_life_time":
4294967295
                } ]
        } ]
rap@cis106:~$
```
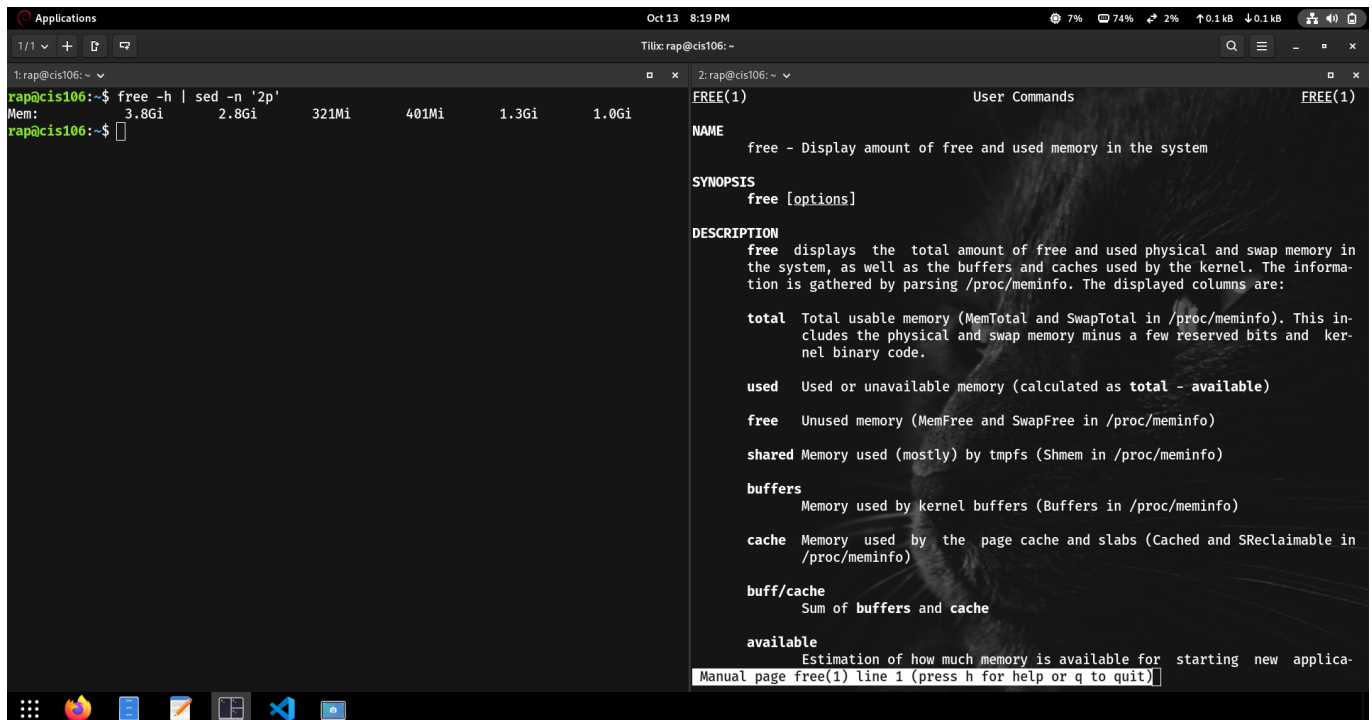
2: rap@cis106: ~

```
                plies --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
ine 115 (press h for help or q to quit)
```

Applications   Oct 13 8:32 PM   13% 75% 2% ↑0.2 kB ↓0.2 kB

Tilix: rap@cis106: ~

1: rap@cis106: ~

```
rap@cis106:~$ uname -a
Linux cis106 6.12.48+deb13-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.12.48-1 (2025-09-20) x
86_64 GNU/Linux
rap@cis106:~$
```

2: rap@cis106: ~

```
UNAME(1)                      User Commands                      UNAME(1)

NAME
        uname - print system information

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
Manual page uname(1) line 1 (press h for help or q to quit)
```
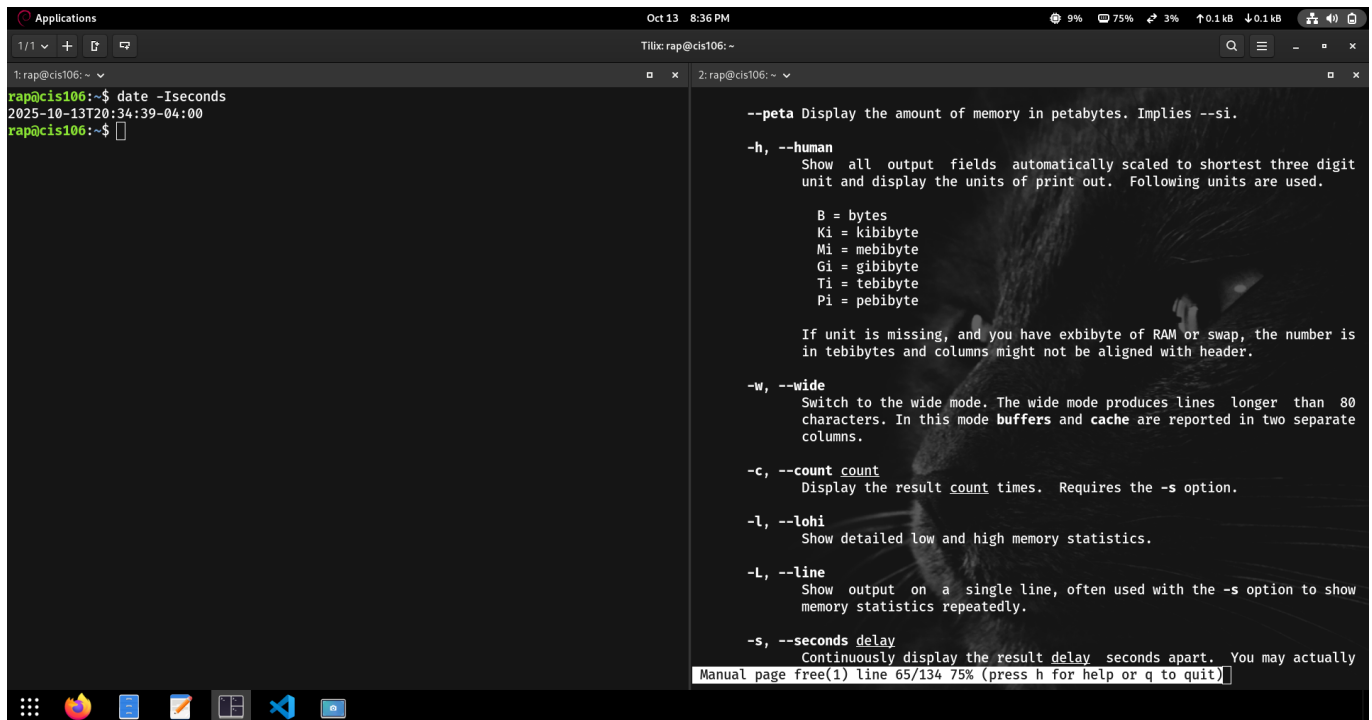
Applications   Oct 13 8:36 PM   9%   75%   3%   0.1 kB 0.1 kB

1/1   Tilix: rap@cis106: ~

1: rap@cis106: ~   2: rap@cis106: ~

```
rap@cis106:~$ date -Iseconds
2025-10-13T20:34:39-04:00
rap@cis106:~$
```

```
             --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.

             -c, --count count
                    Display the result count times.  Requires the -s option.

             -l, --lohi
                    Show detailed low and high memory statistics.

             -L, --line
                    Show  output  on  a  single line, often used with the -s option to show
                    memory statistics repeatedly.

             -s, --seconds delay
                    Continuously display the result delay  seconds apart.  You may actually
Manual page free(1) line 65/134 75% (press h for help or q to quit)
```