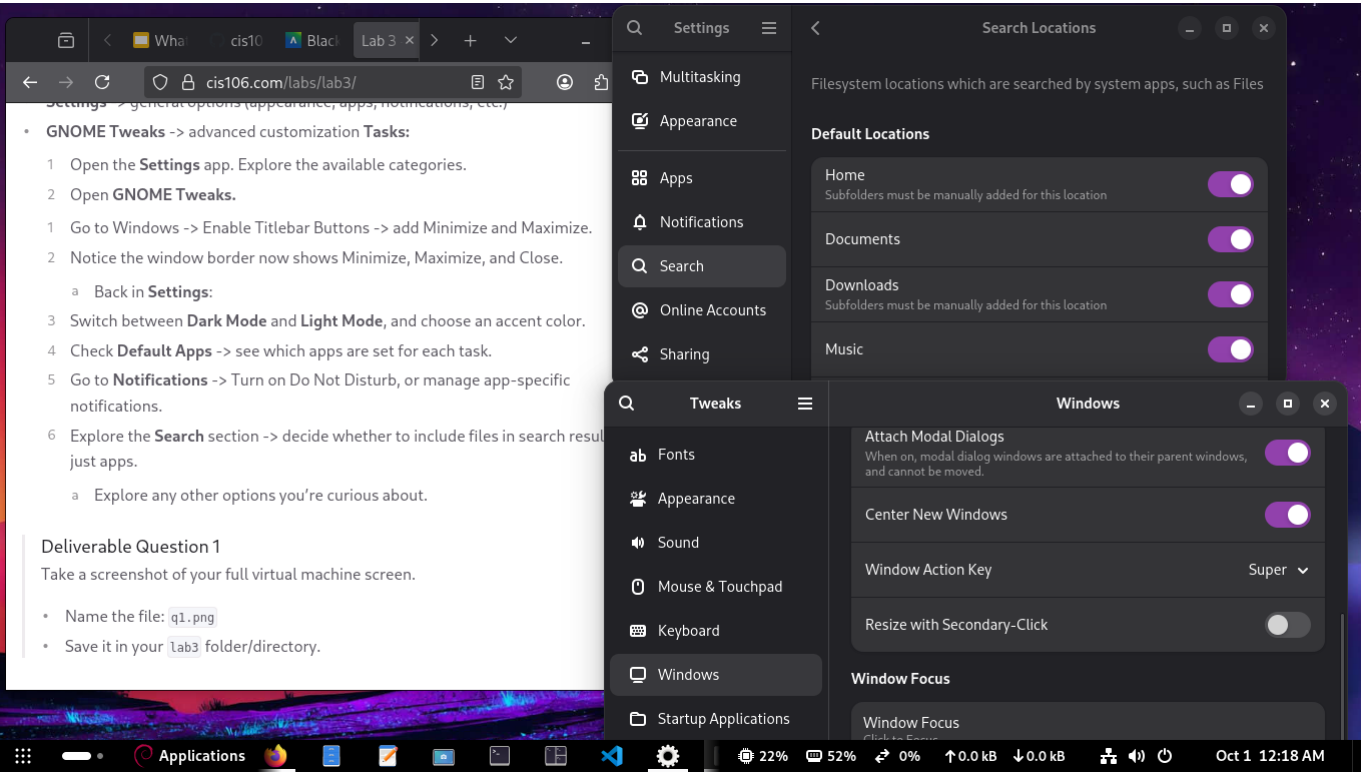
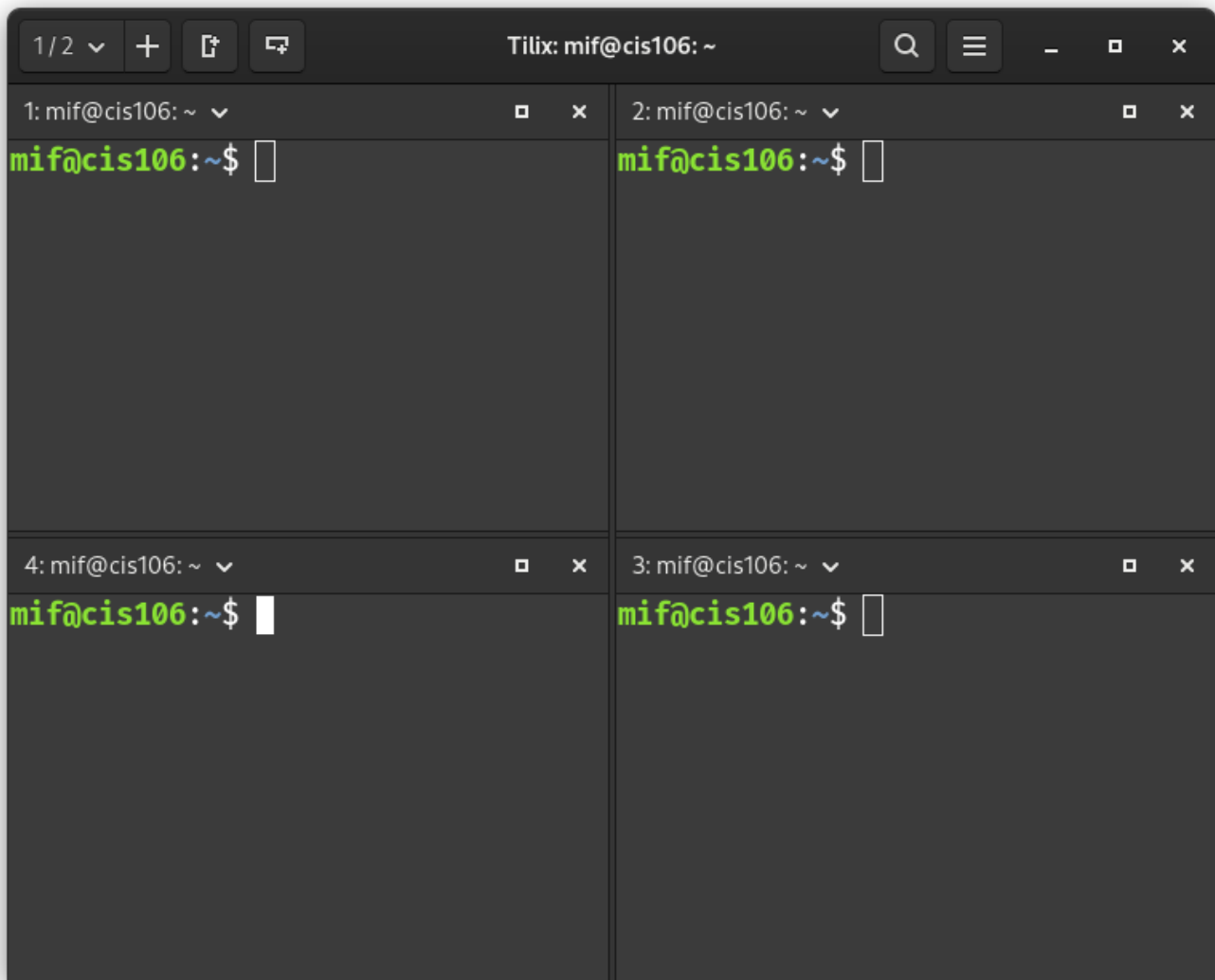


Lab 3 Submission

Question 1



Question 2



Question 3

The screenshot shows a terminal window with two panes. The left pane shows the execution of the 'echo' command with various options: '-e' for escaping backslashes, '\n' for newlines, and '\t' for tabs. The right pane shows the man page for 'echo', including its description and options: '-n' (no trailing newline), '-e' (enable backslash escapes), '-E' (disable backslash escapes), and '--help' (display help).

```

1: mif@cis106: ~
t hello world
mif@cis106:~$ echo -e "\thello world"

    hello world
mif@cis106:~$ echo "line 1 line2"
line 1 line2
mif@cis106:~$ echo -e "line 1\n line2"

line 1
  line2
mif@cis106:~$ echo -e "line 1\n\t line
2"
line 1
      line2
mif@cis106:~$ echo -e "line 1\n\tline2
"
line 1
      line2
mif@cis106:~$ echo -e "\tline 1\nline2
"
      line 1
line2
mif@cis106:~$

2: mif@cis106: ~
[STRING]...
echo LONG-OPTION

DESCRIPTION
Echo the STRING(s) to
standard output.

-n      do not output the
        trailing newline

-e      enable interpreta-
        tion of backslash
        escapes

-E      disable interpre-
        tation of back-
        slash escapes (de-
        fault)

--help  display this help
        and exit

21 25% (press h for help or q to quit)

```

Challenge Question

The screenshot shows a terminal window with two panes. The left pane shows the execution of 'date', 'free', and 'uname' commands. The right pane shows the man page for 'uname', including its description and options: '-a' (all information), '-s' (kernel name), '-n' (nodename), '-r' (kernel release), and '-v' (kernel version).

```

1: mif@cis106: ~
mif@cis106:~$ date --rfc-3339=ns
2025-10-01 01:10:59.218455087-04:00
mif@cis106:~$ free -h
               total        used        free      shared
buff/cache    available
Mem:           3.7Gi       2.7Gi       491Mi       147Mi
Swap:          985Mi       1.1Gi         47Mi       2.5Gi
mif@cis106:~$ uname -a
Linux cis106 6.12.48+deb13-amd64 #1 SMP PREEMPT_DYNAMIC D
ebian 6.12.48-1 (2025-09-20) x86_64 GNU/Linux
mif@cis106:~$

2: mif@cis106: ~
uname [OPTION]...

DESCRIPTION
Print certain system information. With no OP-
TION, 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

nual page uname(1) line 7 (press h for help or q to quit)

```