

Lab 3 Submission

Question 1

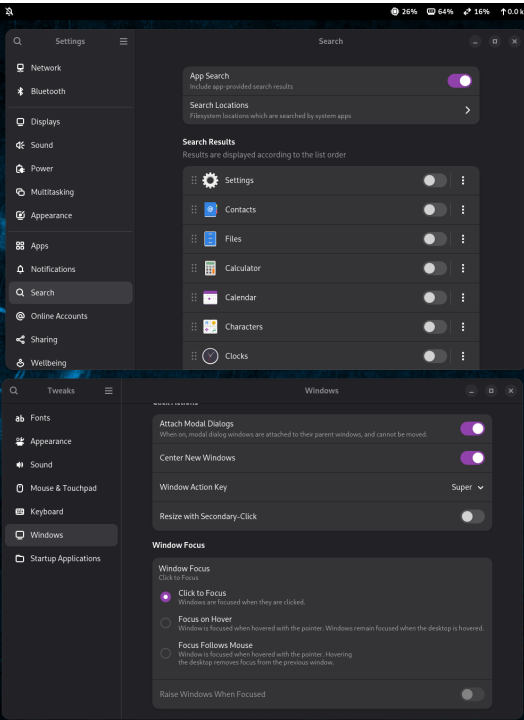
search results or just apps.

a Explore any other options you're curious about.

Deliverable Question 1

Take a screenshot of your full virtual machine screen.

- Name the file: q1.png
- Save it in your lab3 folder/directory.



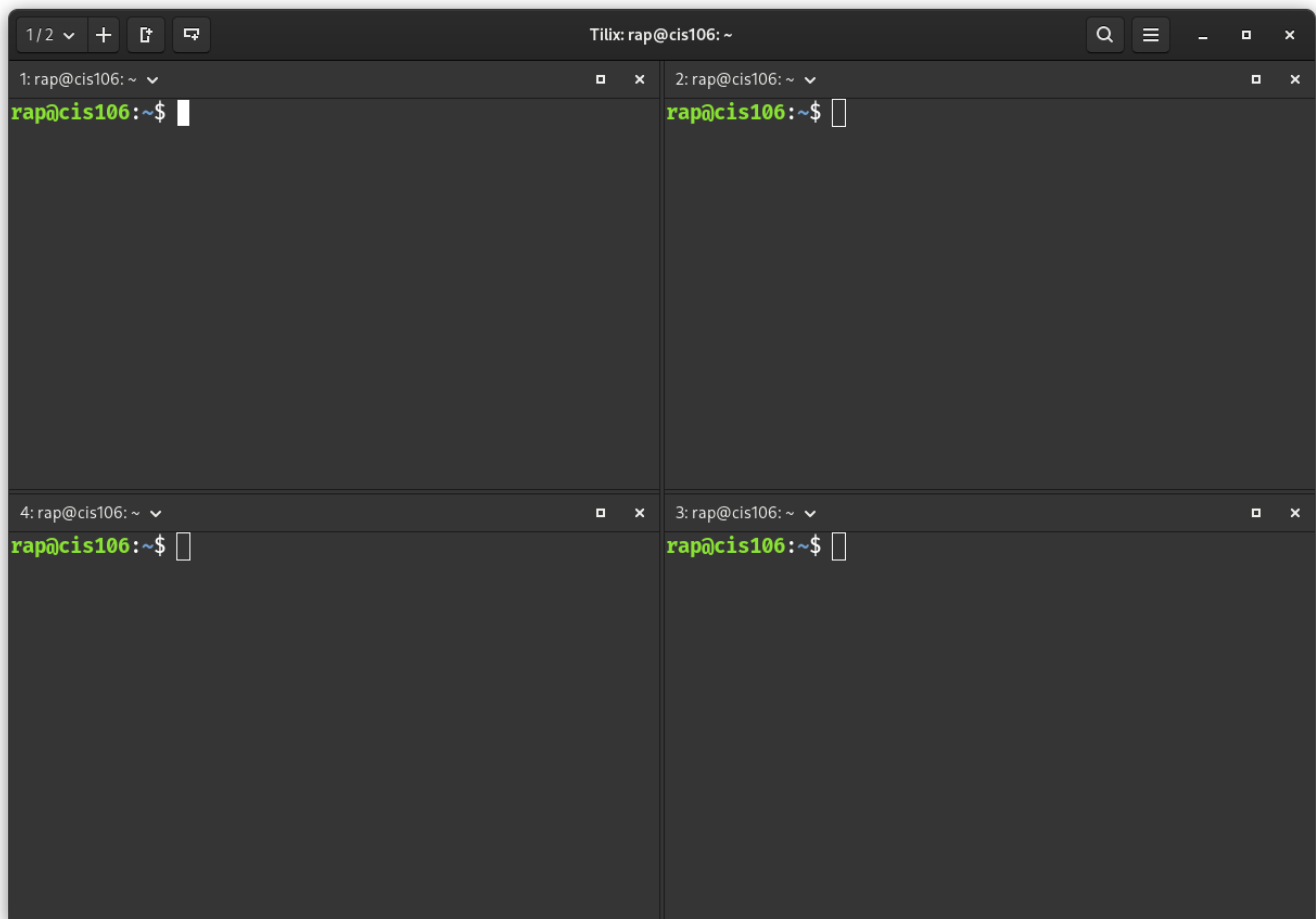
Question 2: Working with the terminal emulator

Before we start working with Bash, let's first get comfortable with the terminal emulator itself. Since most people have little to no experience using a terminal, this step will help you understand the application before we dive into commands.

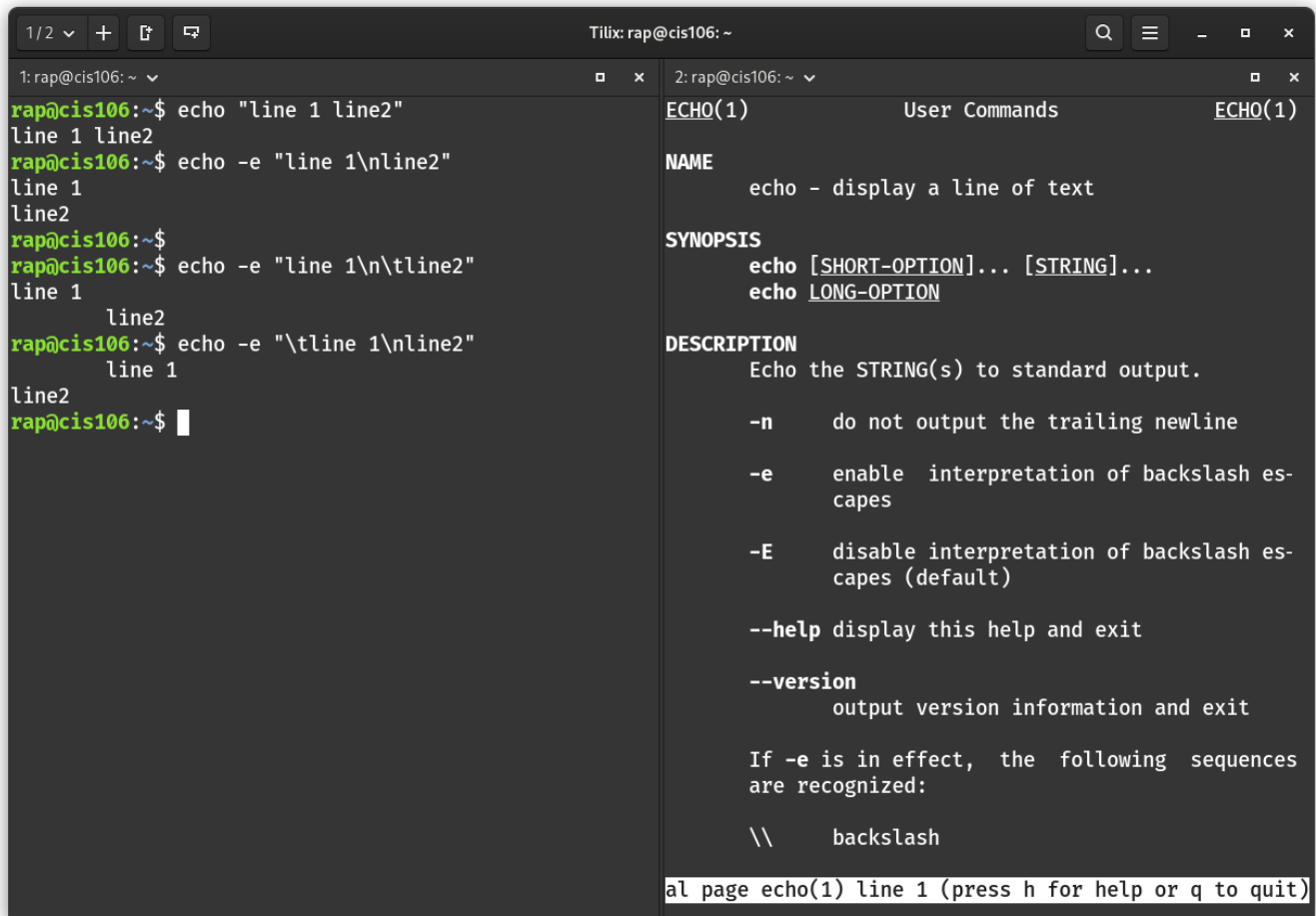
Currently, your system has two terminal emulators installed:

```
1 GNOME Console
```

Question 2



Question 3



The screenshot shows a Tmux terminal window with two panes. The left pane shows a series of commands and their outputs for the 'echo' command. The right pane shows the help page for 'echo(1)'.

Left Pane Output:

```
rap@cis106:~$ echo "line 1 line2"
line 1 line2
rap@cis106:~$ echo -e "line 1\nline2"
line 1
line2
rap@cis106:~$
rap@cis106:~$ echo -e "line 1\n\tline2"
line 1
    line2
rap@cis106:~$ echo -e "\tline 1\nline2"
    line 1
line2
rap@cis106:~$
```

Right Pane Output (ECHO(1) User Commands):

NAME
echo - display a line of text

SYNOPSIS
echo [SHORT-OPTION]... [STRING]...
echo LONG-OPTION

DESCRIPTION
Echo the STRING(s) to standard output.

-n do not output the trailing newline

-e enable interpretation of backslash escapes

-E disable interpretation of backslash escapes (default)

--help display this help and exit

--version output version information and exit

If **-e** is in effect, the following sequences are recognized:

**** backslash

al page echo(1) line 1 (press h for help or q to quit)

Challenge Question

```

1/1 v + [ ] TiliX: rap@cis106: ~
1: rap@cis106: ~ v
rap@cis106:~$ ip -j -p addr show dev enp0s3
[ {
  "ifindex": 2,
  "ifname": "enp0s3",
  "flags": [ "BROADCAST", "MULTICAST", "UP", "LOWER_UP" ],
  "mtu": 1500,
  "qdisc": "fq_codel",
  "operstate": "UP",
  "group": "default",
  "txqlen": 1000,
  "link_type": "ether",
  "address": "08:00:27:75:b7:3b",
  "broadcast": "ff:ff:ff:ff:ff:ff",
  "altnames": [ "enx08002775b73b" ],
  "addr_info": [ {
    "family": "inet",
    "local": "10.0.2.15",
    "prefixlen": 24,
    "broadcast": "10.0.2.255",
    "scope": "global",
    "dynamic": true,
    "noprifiroute": true,
    "label": "enp0s3",
    "valid_life_time": 83039,
    "preferred_life_time": 83039
  }, {
    "family": "inet6",
    "local": "fd17:625c:f037:2:aac9:60bb:cc09:58c7",
    "prefixlen": 64,
    "scope": "global",
    "temporary": true,
    "dynamic": true,
    "valid_life_time": 86250,
    "preferred_life_time": 14250
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  } ]
} ]

tor option.

-ts, -tshort
Like -timestamp, but use shorter format.

-rc, -rcvbuf<SIZE>
Set the netlink socket receive buffer size, defaults to 1MB.

-iec print human readable rates in IEC units (e.g. 1Ki = 1024).

-br, -brief
Print only basic information in a tabular format for better readability. This option is currently only supported by ip addr show, ip link show & ip neigh show commands.

-j, -json
Output results in JavaScript Object Notation (JSON).

-p, -pretty
The default JSON format is compact and more efficient to parse but hard for most users to read. This flag adds indentation for readability.
l page ip(8) line 145 (press h for help or q to quit)

```

```

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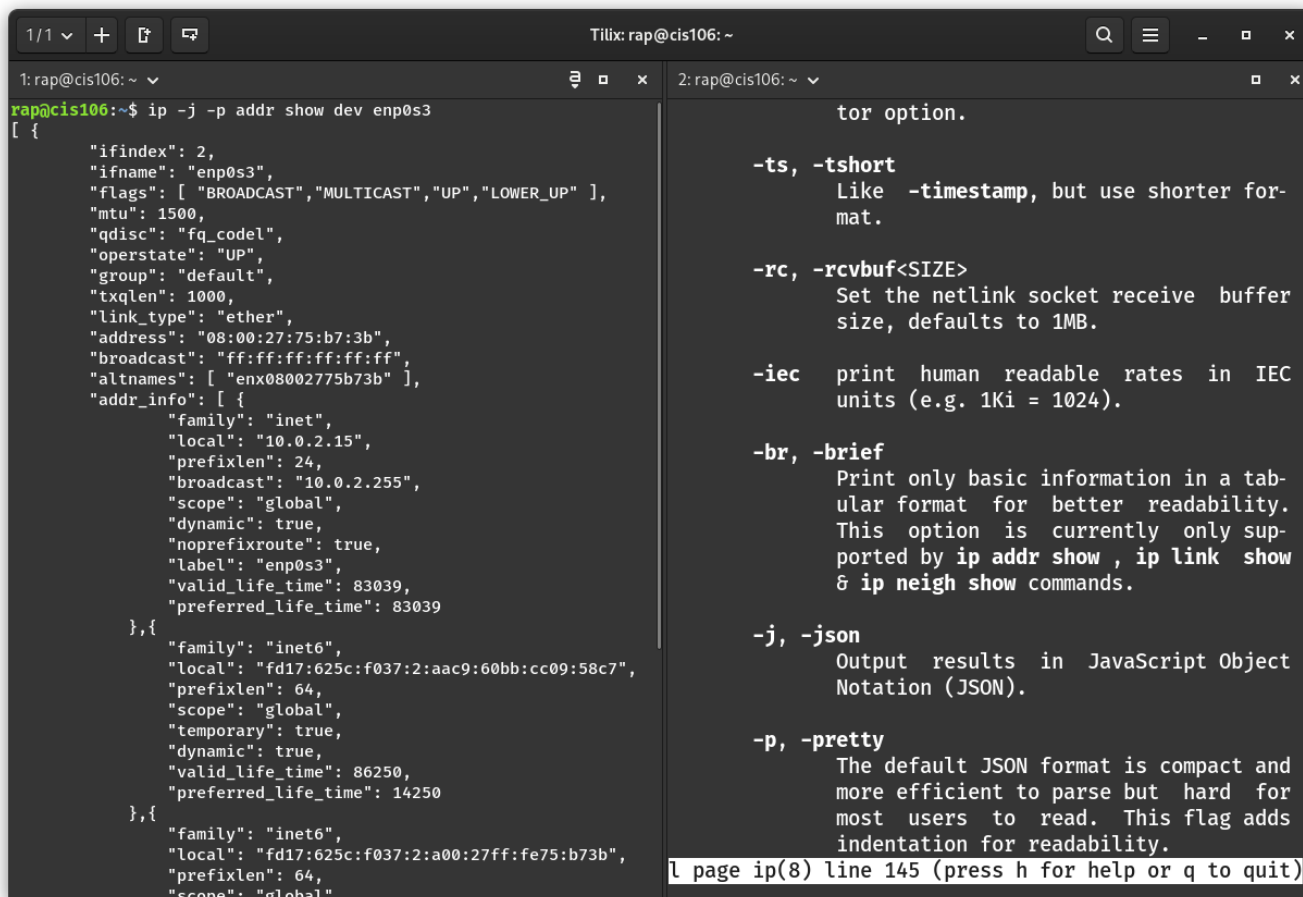
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