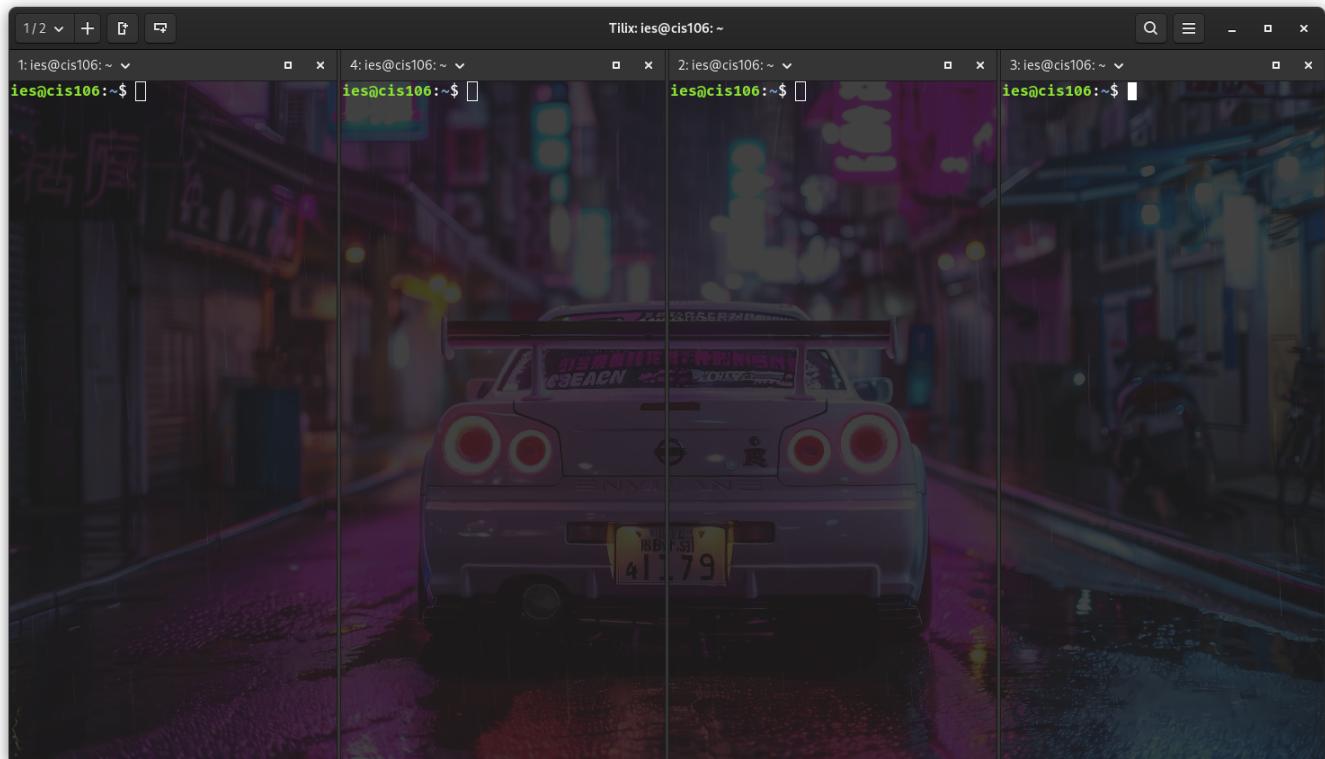


Lab 3 Submission

Question 1



Question 2



Question 3

Applications Sep 30 10:00 PM 23% 77% 49% 0.0 kB

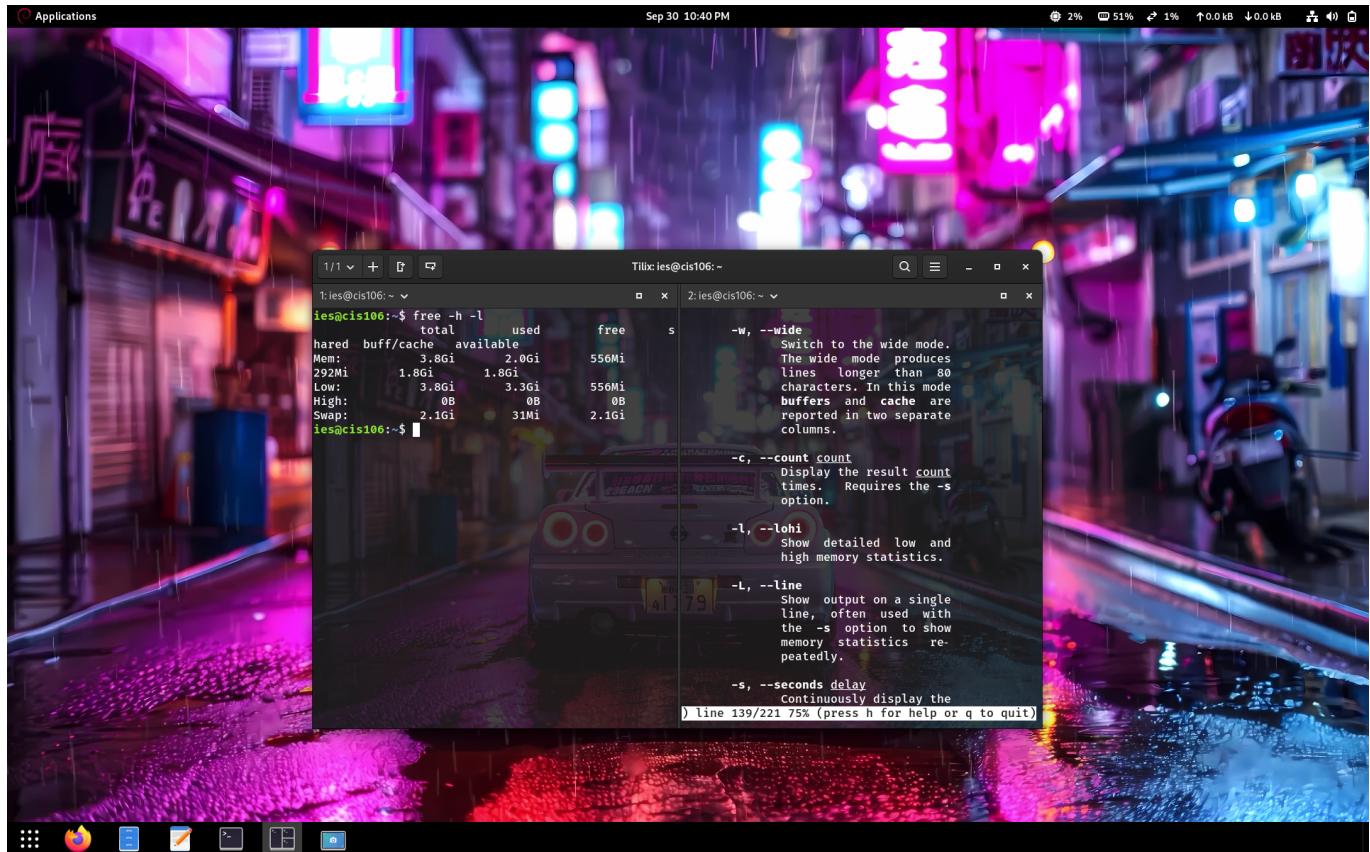
1:ies@cis106:~

```
ies@cis106:~$ echo "line 1 line2"
line 1 line2
ies@cis106:~$ echo -e "line 1\nline2"
line 1
line2
ies@cis106:~$ echo -e "line 1\n\tline2"
line 1
line2
ies@cis106:~$ echo -e "\tline 1\n\tnline2"
line 1
line2
ies@cis106:~$
```

2:ies@cis106:~

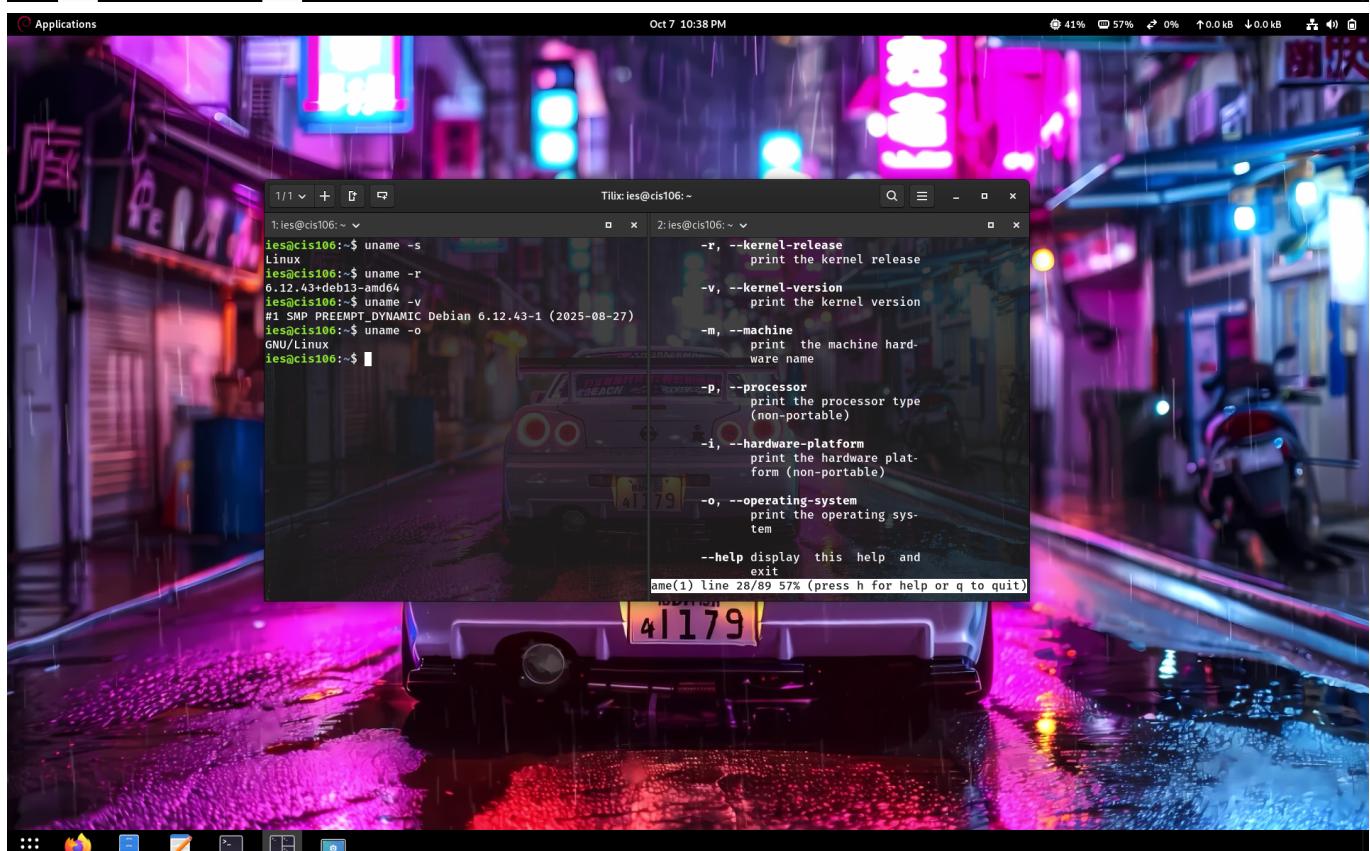
```
ECHO(1) User Commands ECHO(1)
NAME echo - display a line of text
echo [SHORT-OPTION]... [STRING]...
echo LONG-OPTION
SYNOPSIS
DESCRIPTION
Echo the STRING(s) to standard output.
-n do not output the trailing newline
-e enable interpretation of backslash escapes
-E disable interpretation of backslash 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
\\a alert (BEL)
\\b backspace
\\c produce no further output
\\e escape
\\f form feed
Manual page echo(1) line 1 (press h for help or q to quit)
```

Challenge Question



Applications Sep 30 10:40 PM 2% 51% ↗ 1% ↑ 0.0 kB ↓ 0.0 kB

```
1:ies@cis106:~ 2:ies@cis106:~  
1:ies@cis106:~ $ free -h -l  
total used free s  
shared buff/cache available  
Mem: 3.8Gi 2.0Gi 556Mi  
292Mi 1.8Gi 1.8Gi  
Low: 3.8Gi 3.3Gi 556Mi  
High: 0B 0B 0B  
Swap: 2.1Gi 31Mi 2.1Gi  
ies@cis106:~ |  
2:ies@cis106:~ | -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 re-  
|   peatedly.  
| -s, --seconds delay  
|   Continuously display the  
) line 139/221 75% (press h for help or q to quit)
```



Applications Oct 7 10:38 PM 41% 57% ↗ 0% ↑ 0.0 kB ↓ 0.0 kB

```
1:ies@cis106:~ 2:ies@cis106:~  
1:ies@cis106:~ $ uname -s  
Linux  
1:ies@cis106:~ $ uname -r  
6.12.43+deb13-amd64  
1:ies@cis106:~ $ uname -v  
#1 SMP PREEMPT_DYNAMIC Debian 6.12.43-1 (2025-08-27)  
1:ies@cis106:~ $ uname -o  
GNU/Linux  
1:ies@cis106:~ |  
2:ies@cis106:~ | -r, --kernel-release  
|   print the kernel release  
| -v, --kernel-version  
|   print the kernel version  
| -m, --machine  
|   print the machine hard-  
|   ware name  
| -p, --processor  
|   print the processor type  
|   (non-portable)  
| -i, --hardware-platform  
|   print the hardware plat-  
|   form (non-portable)  
| -o, --operating-system  
|   print the operating sys-  
|   tem  
| --help display this help and  
|   exit  
) line 28/89 57% (press h for help or q to quit)
```

