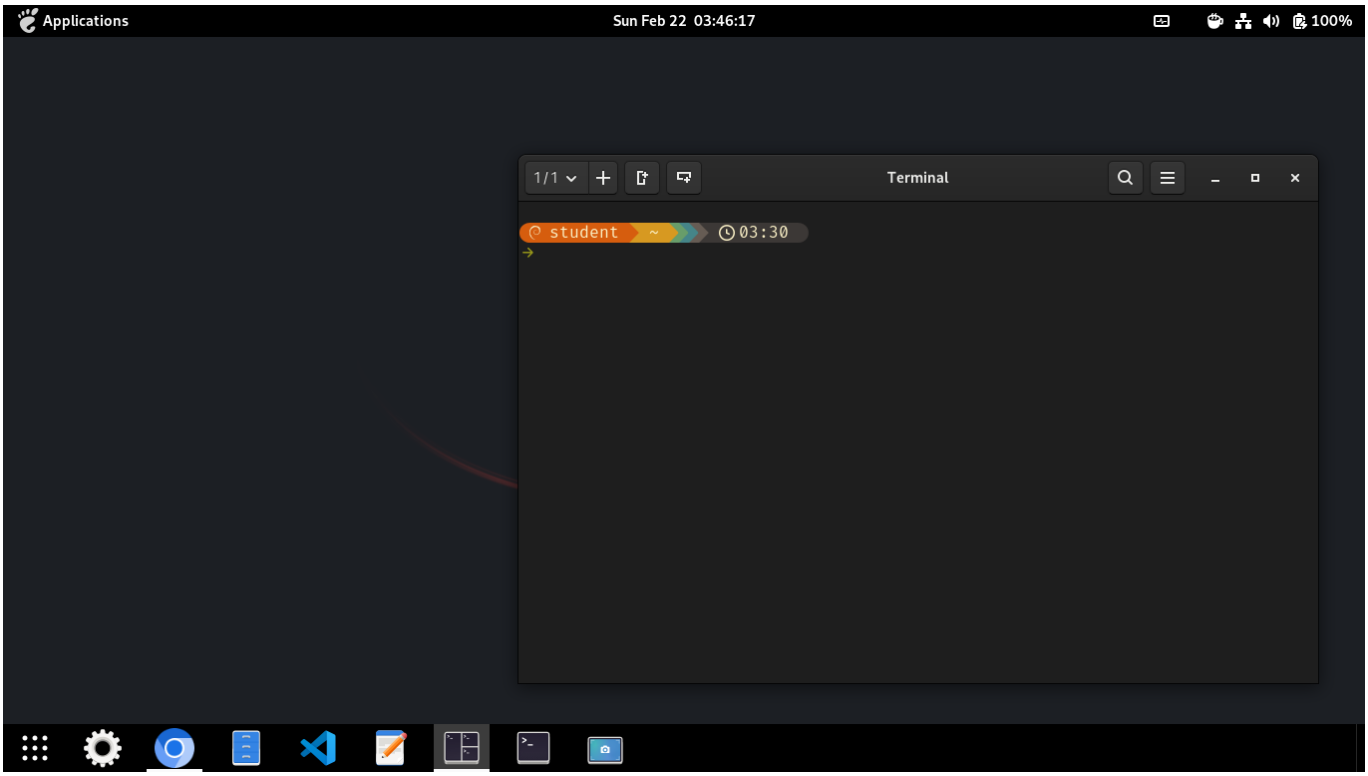
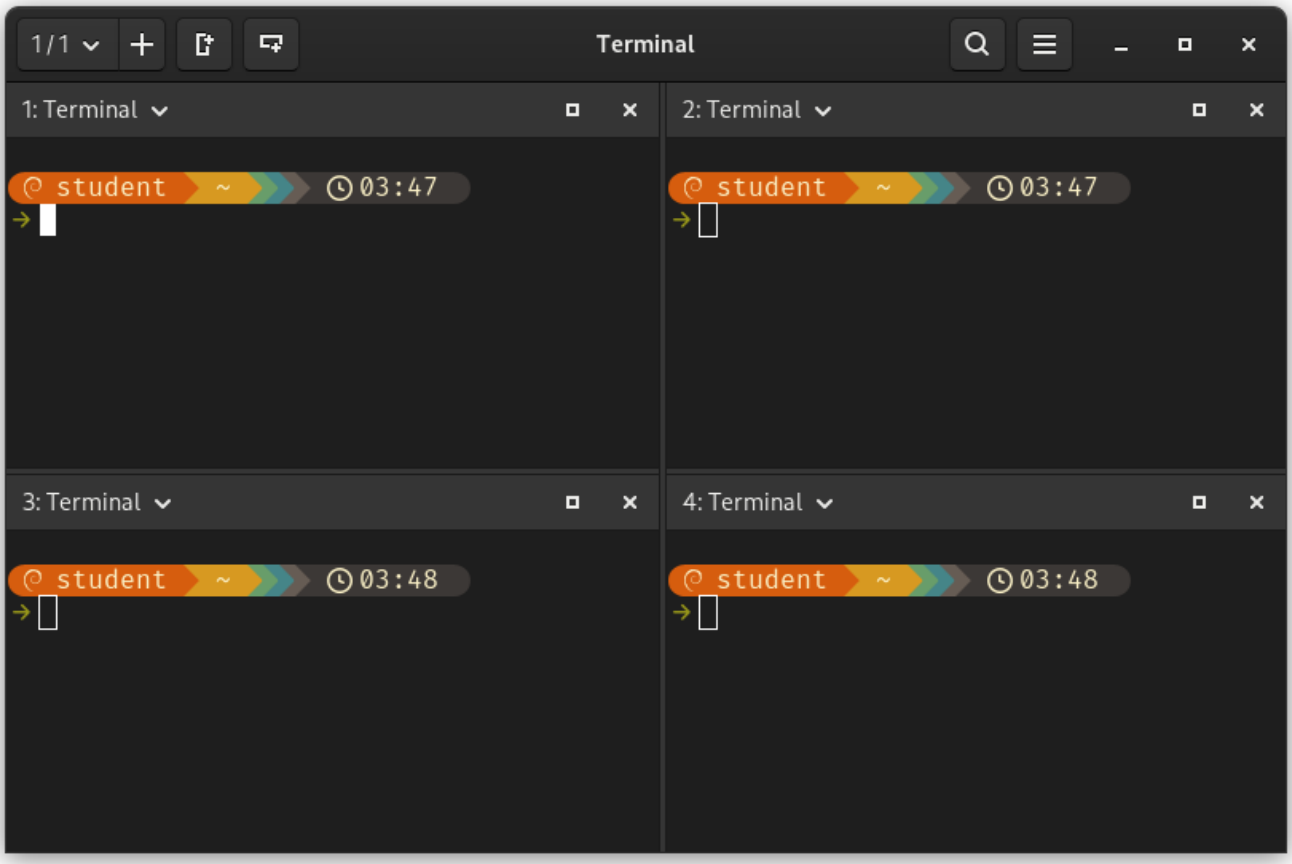
Lab 3 Submission

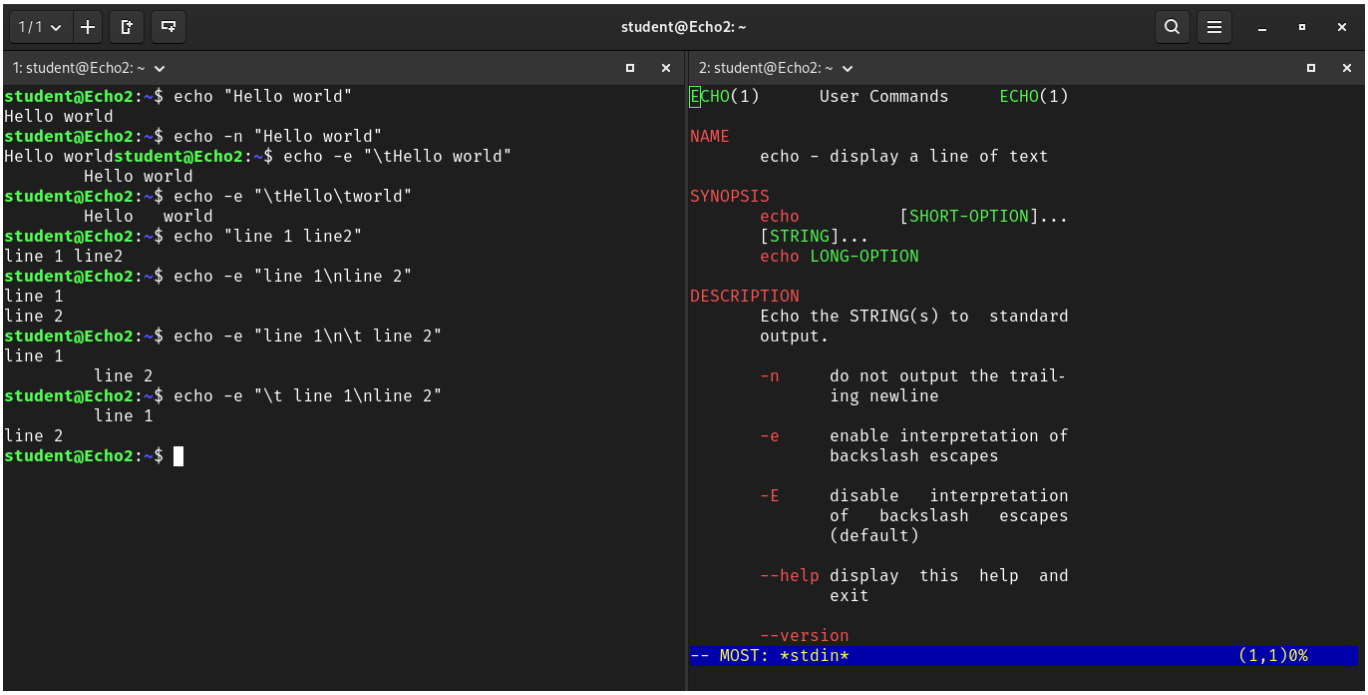
Question 1



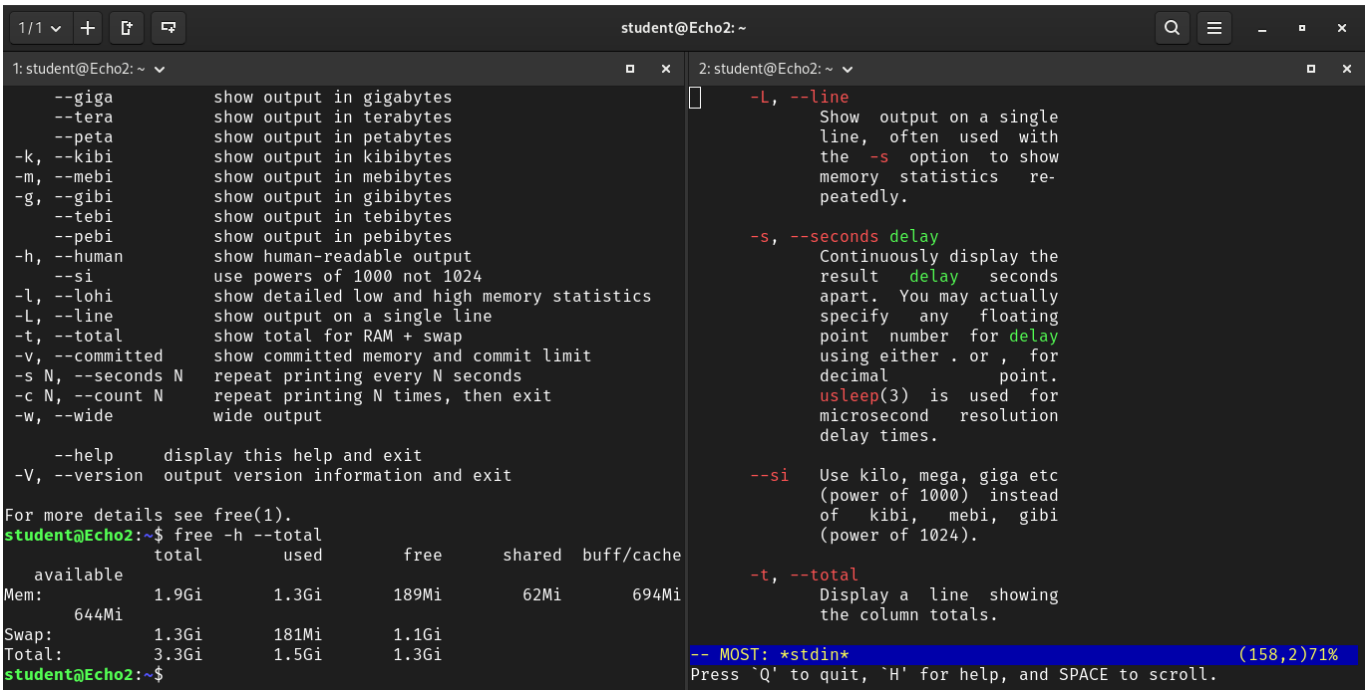
Question 2

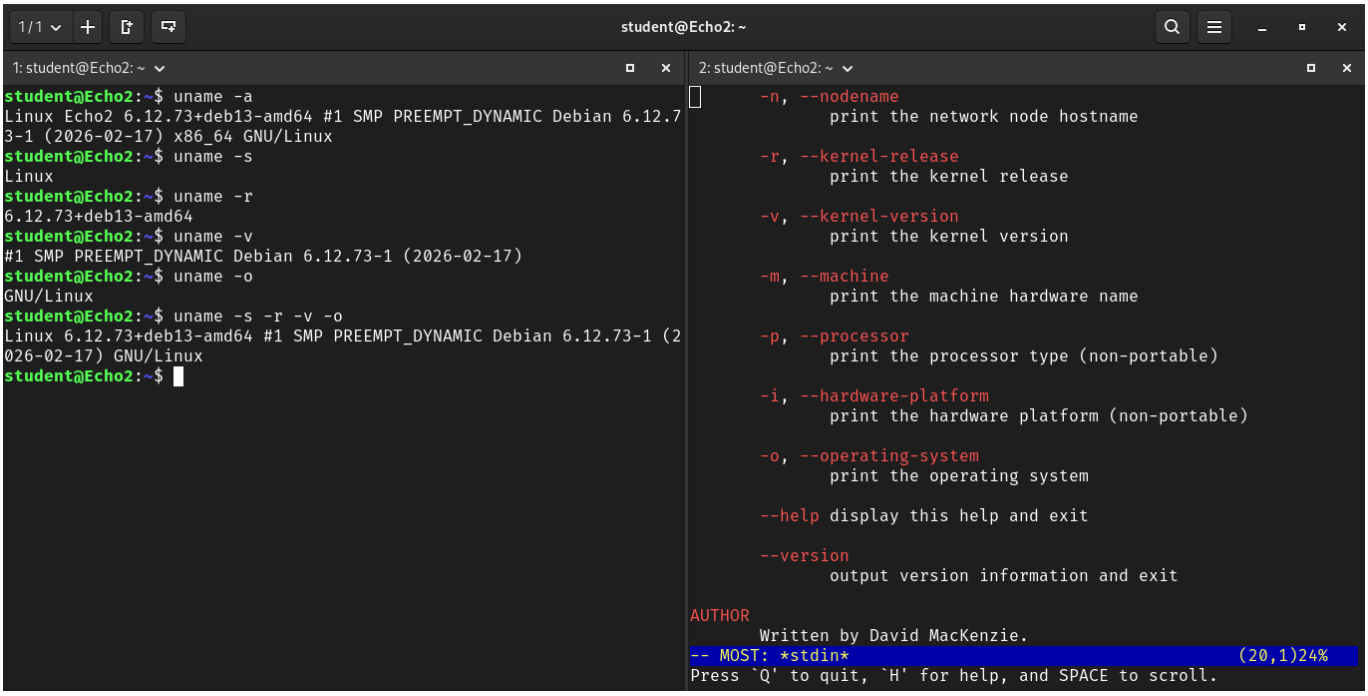


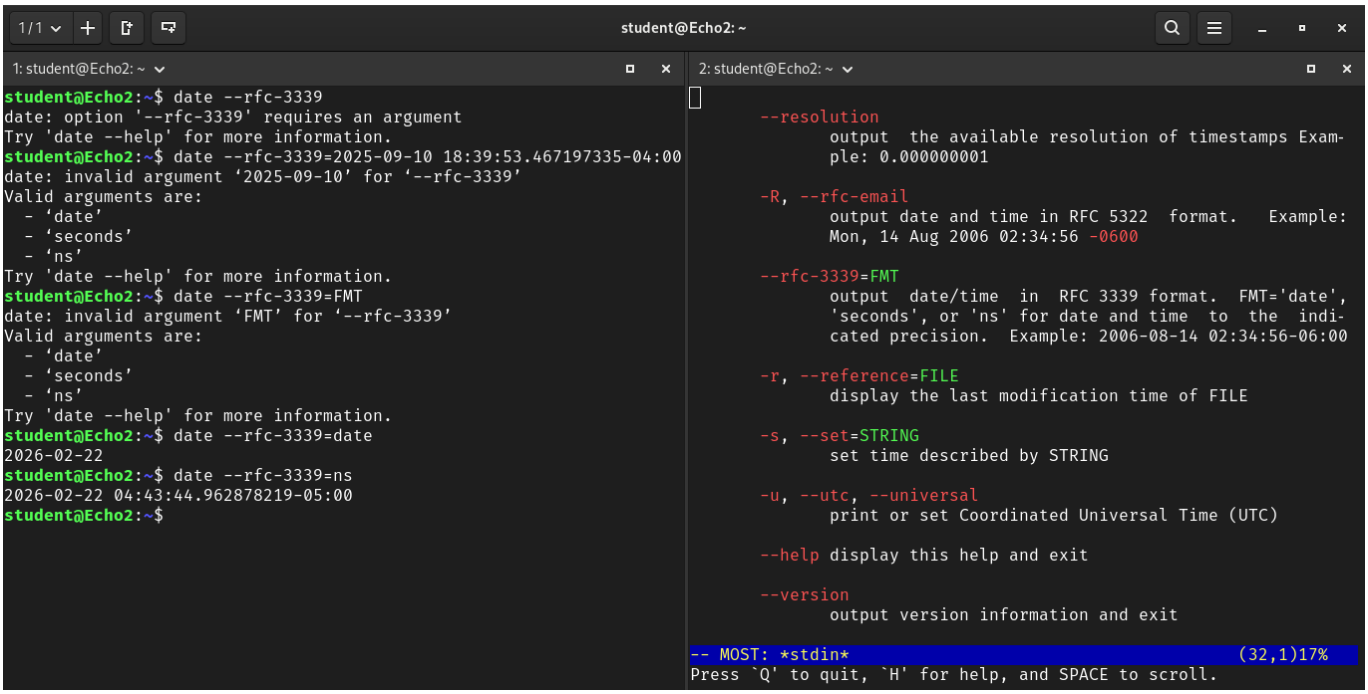
Question 3



Challenge Question


1/1
student@Echo2: ~
1: student@Echo2: ~
2: student@Echo2: ~
--giga show output in gigabytes
--tera show output in terabytes
--peta show output in petabytes
-k, --kibi show output in kibibytes
-m, --mebi show output in mebibytes
-g, --gibi show output in gibibytes
--tebi show output in tebibytes
--pebi show output in pebibytes
-h, --human show human-readable output
--si use powers of 1000 not 1024
-l, --lohi show detailed low and high memory statistics
-L, --line show output on a single line
-t, --total show total for RAM + swap
-v, --committed show committed memory and commit limit
-s N, --seconds N repeat printing every N seconds
-c N, --count N repeat printing N times, then exit
-w, --wide wide output
--help display this help and exit
-V, --version output version information and exit
For more details see free(1).
student@Echo2:~$ free -h --total
total used free shared buff/cache available
Mem: 1.9Gi 1.3Gi 189Mi 62Mi 694Mi 644Mi
Swap: 1.3Gi 181Mi 1.1Gi
Total: 3.3Gi 1.5Gi 1.3Gi
student@Echo2:~$
-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 result delay seconds apart. You may actually specify any floating point number for delay using either . or , for decimal point. usleep(3) is used for microsecond resolution delay times.
--si Use kilo, mega, giga etc (power of 1000) instead of kibi, mebi, gibi (power of 1024).
-t, --total
Display a line showing the column totals.
-- MOST: *stdin* (158,2)71%
Press `Q' to quit, `H' for help, and SPACE to scroll.


1/1
student@Echo2: ~
1: student@Echo2: ~
2: student@Echo2: ~
student@Echo2:~$ uname -a
Linux Echo2 6.12.73+deb13-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.12.73-1 (2026-02-17) x86_64 GNU/Linux
student@Echo2:~$ uname -s
Linux
student@Echo2:~$ uname -r
6.12.73+deb13-amd64
student@Echo2:~$ uname -v
#1 SMP PREEMPT_DYNAMIC Debian 6.12.73-1 (2026-02-17)
student@Echo2:~$ uname -o
GNU/Linux
student@Echo2:~$ uname -s -r -v -o
Linux 6.12.73+deb13-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.12.73-1 (2026-02-17) GNU/Linux
student@Echo2:~$
-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
print the hardware platform (non-portable)
-o, --operating-system
print the operating system
--help display this help and exit
--version
output version information and exit
AUTHOR
Written by David MacKenzie.
-- MOST: *stdin* (20,1)24%
Press `Q' to quit, `H' for help, and SPACE to scroll.


1/1
student@Echo2: ~
1: student@Echo2: ~
2: student@Echo2: ~
student@Echo2:~$ date --rfc-3339
date: option '--rfc-3339' requires an argument
Try 'date --help' for more information.
student@Echo2:~$ date --rfc-3339=2025-09-10 18:39:53.467197335-04:00
date: invalid argument ‘2025-09-10’ for ‘--rfc-3339’
Valid arguments are:
- ‘date’
- ‘seconds’
- ‘ns’
Try 'date --help' for more information.
student@Echo2:~$ date --rfc-3339=FMT
date: invalid argument ‘FMT’ for ‘--rfc-3339’
Valid arguments are:
- ‘date’
- ‘seconds’
- ‘ns’
Try 'date --help' for more information.
student@Echo2:~$ date --rfc-3339=date
2026-02-22
student@Echo2:~$ date --rfc-3339=ns
2026-02-22 04:43:44.962878219-05:00
student@Echo2:~$
--resolution
output the available resolution of timestamps Example: 0.000000001
-R, --rfc-email
output date and time in RFC 5322 format. Example: Mon, 14 Aug 2006 02:34:56 -0600
--rfc-3339=FMT
output date/time in RFC 3339 format. FMT='date', 'seconds', or 'ns' for date and time to the indicated precision. Example: 2006-08-14 02:34:56-06:00
-r, --reference=FILE
display the last modification time of FILE
-s, --set=STRING
set time described by STRING
-u, --utc, --universal
print or set Coordinated Universal Time (UTC)
--help display this help and exit
--version
output version information and exit
-- MOST: *stdin* (32,1)17%
Press `Q' to quit, `H' for help, and SPACE to scroll.