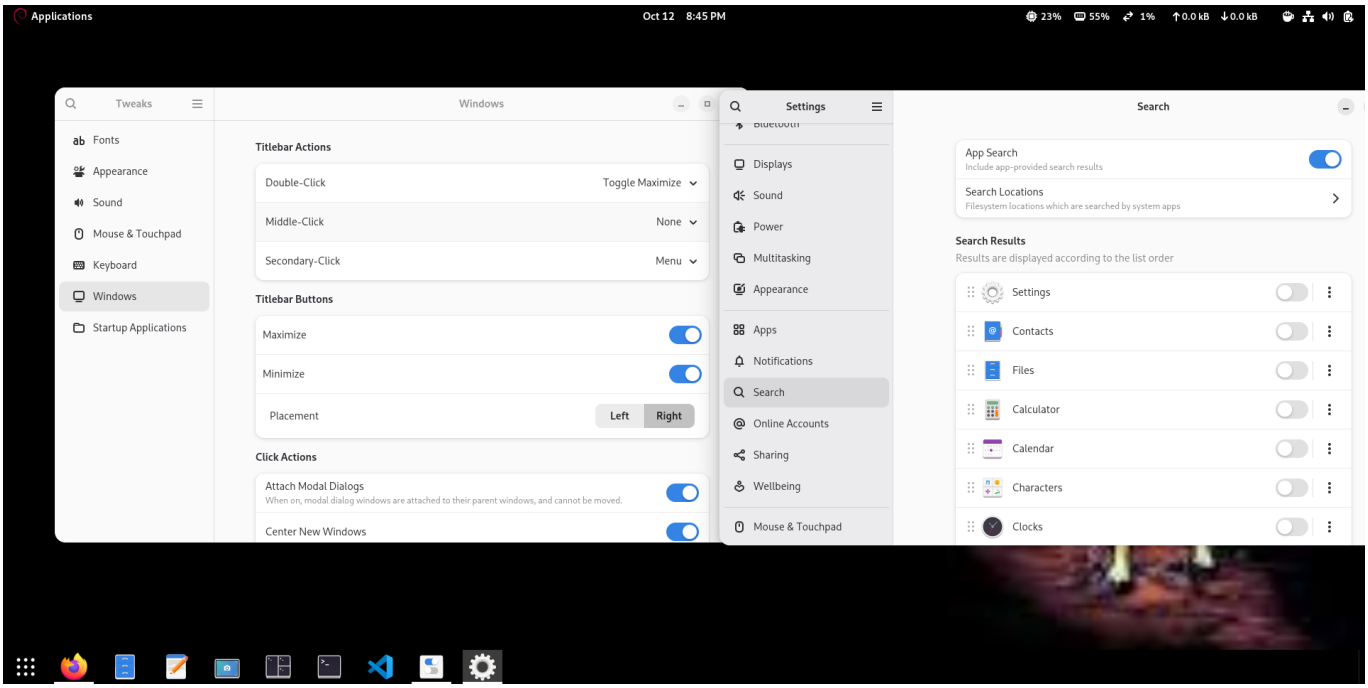
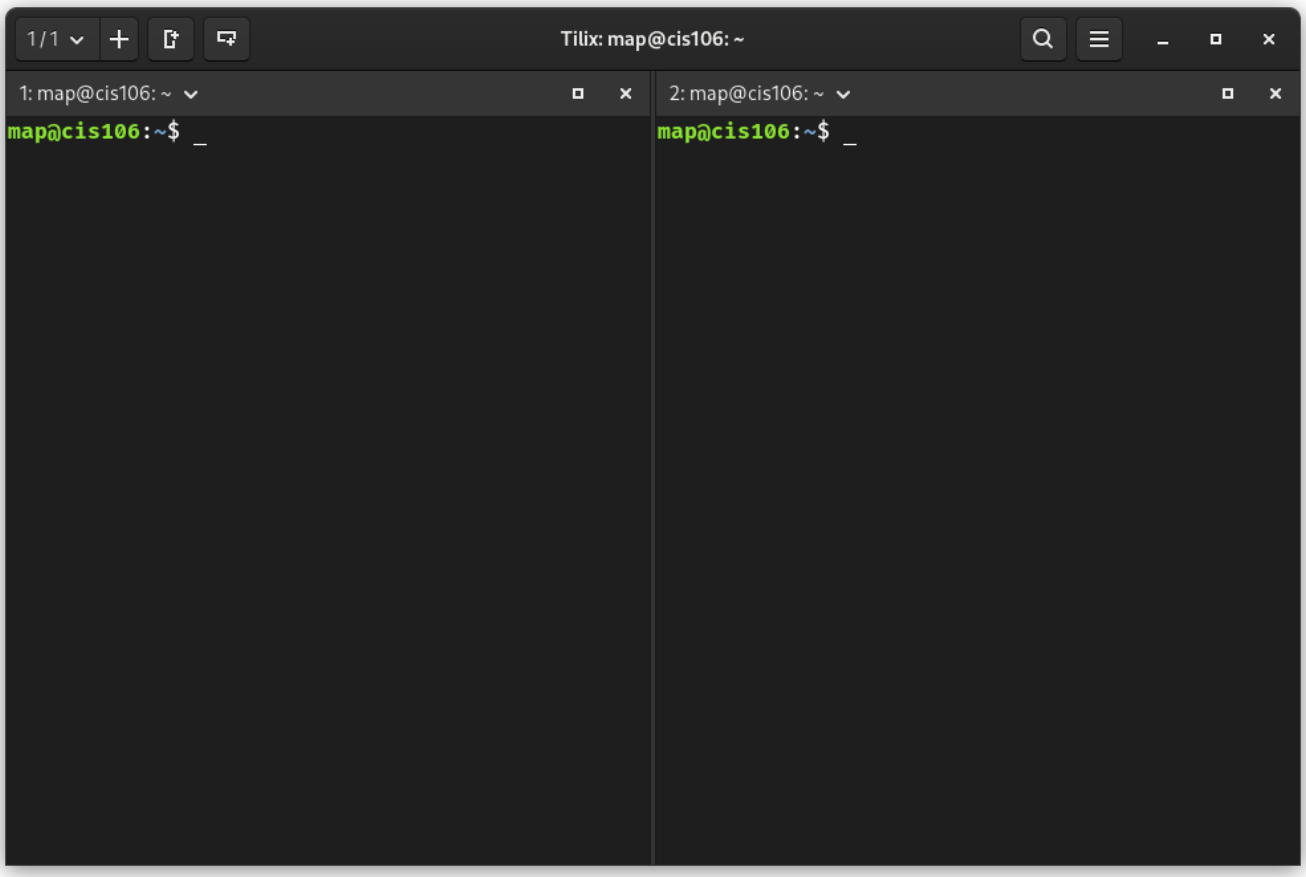
Lab 3 Submission

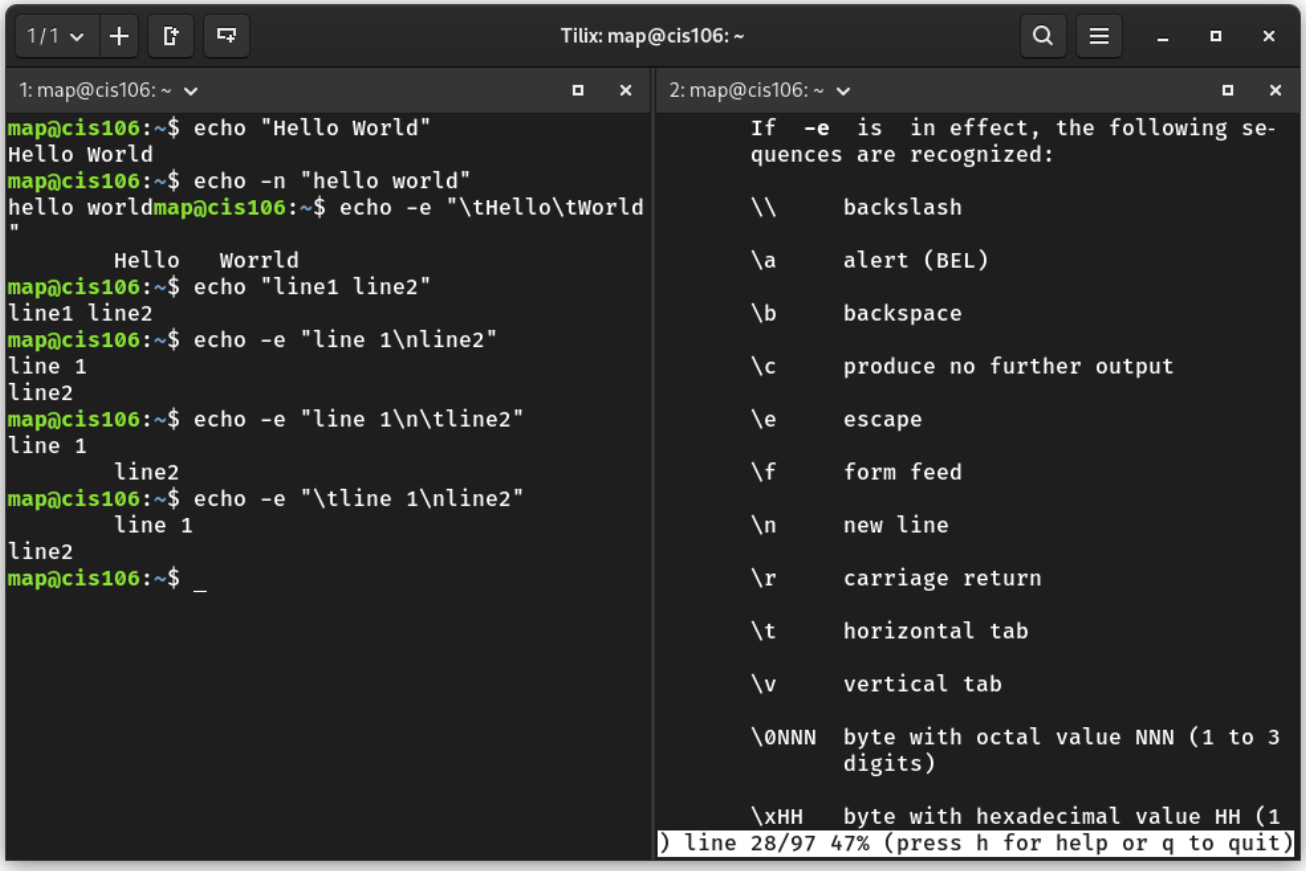
Question 1



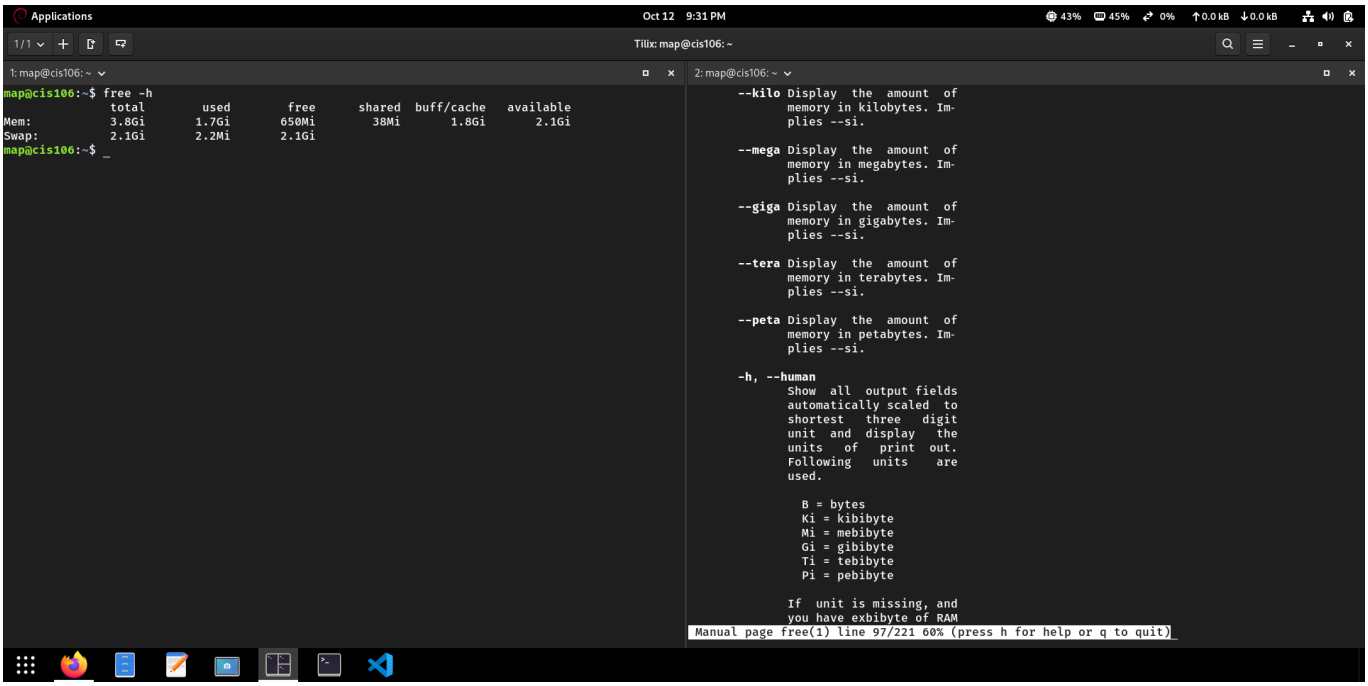
Question 2

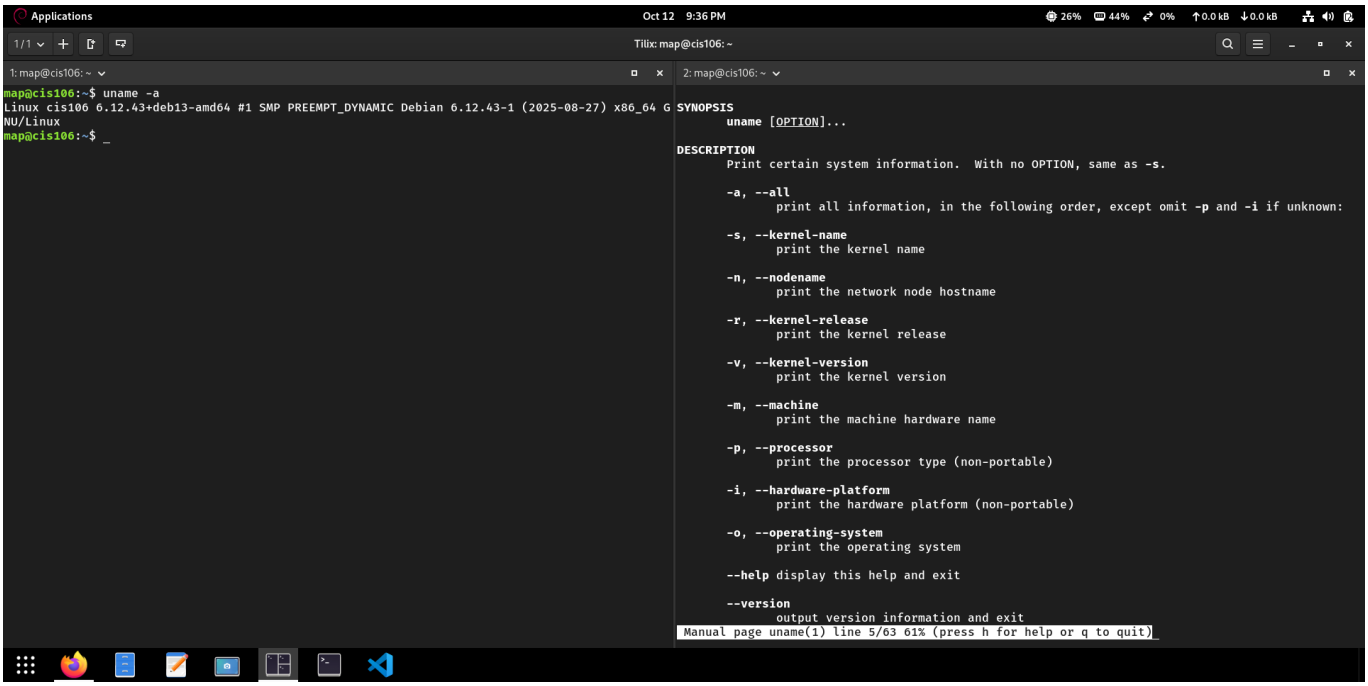


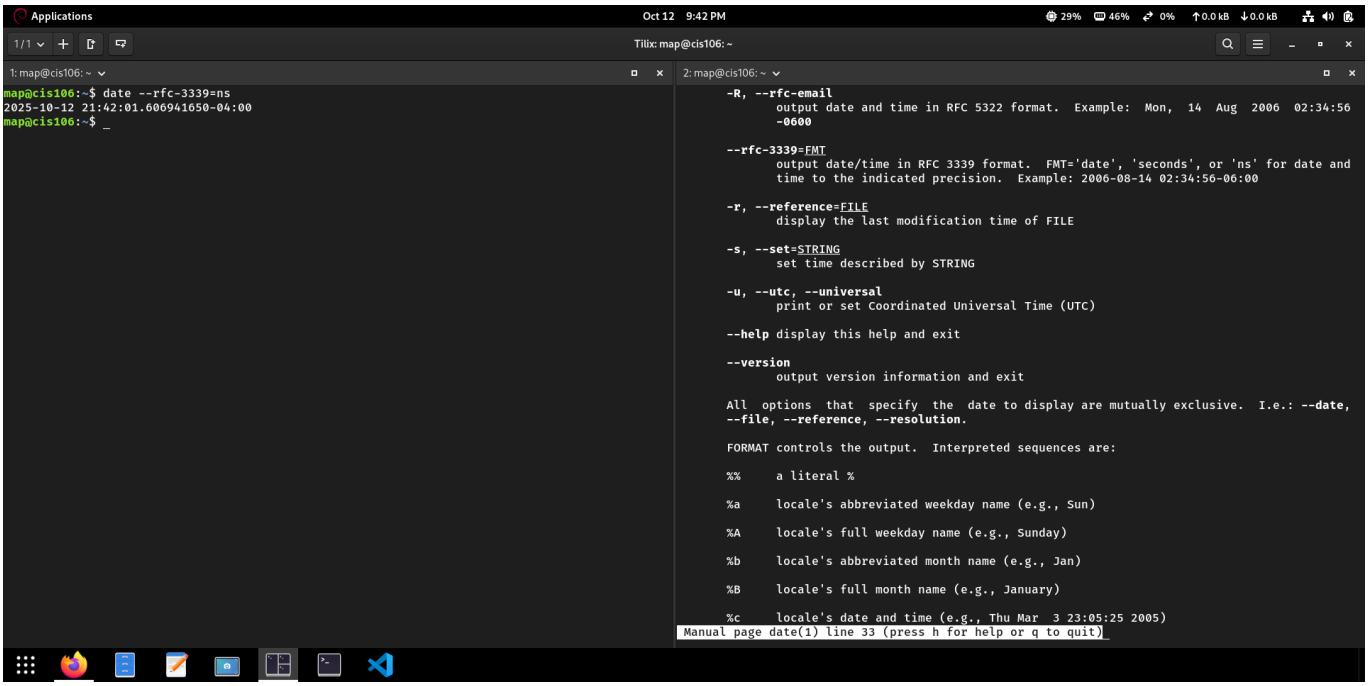
Question 3



Challenge Question


Applications
Oct 12 9:31 PM
Tilix: map@cis106: ~
1: map@cis106: ~
map@cis106:~$ free -h
total used free shared buff/cache available
Mem: 3.8Gi 1.7Gi 650Mi 38Mi 1.8Gi 2.1Gi
Swap: 2.1Gi 2.2Mi 2.1Gi
map@cis106:~$ _
2: map@cis106: ~
--kilo Display the amount of memory in kilobytes. Implies --si.
--mega Display the amount of memory in megabytes. Implies --si.
--giga Display the amount of memory in gigabytes. Implies --si.
--tera Display the amount of memory in terabytes. Implies --si.
--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
Manual page free(1) line 97/221 60% (press h for help or q to quit)


Applications
Oct 12 9:36 PM
Tilix: map@cis106: ~
1: map@cis106: ~
map@cis106:~$ uname -a
Linux cis106 6.12.43+deb13-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.12.43-1 (2025-08-27) x86_64 GNU/Linux
map@cis106:~$ _
2: map@cis106: ~
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
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
Manual page uname(1) line 5/63 61% (press h for help or q to quit)


Applications
Oct 12 9:42 PM
29% 46% 0% 0.0 kB 0.0 kB
1/1
Tilix: map@cis106: ~
1: map@cis106: ~
2: map@cis106: ~
map@cis106:~$ date --rfc-3339=ns
2025-10-12 21:42:01.606941650-04:00
map@cis106:~$ _
-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
All options that specify the date to display are mutually exclusive. I.e.: --date, --file, --reference, --resolution.
FORMAT controls the output. Interpreted sequences are:
%% a literal %
%a locale's abbreviated weekday name (e.g., Sun)
%A locale's full weekday name (e.g., Sunday)
%b locale's abbreviated month name (e.g., Jan)
%B locale's full month name (e.g., January)
%c locale's date and time (e.g., Thu Mar 3 23:05:25 2005)
Manual page date(1) line 33 (press h for help or q to quit)