

Lab 3 Submission

Question 2

The screenshot shows a terminal window titled "Tilix: rodri@CIS106: ~" with two panes. The left pane shows the execution of the 'echo' command with various options: 'echo "hello world"', 'echo -n "hello world"', 'echo -e "\thello world"', 'echo -e "\thello\nworld"', 'echo -e "line1\nline2"', 'echo -e "line1\n\tline2"', and 'echo -e "\nline1\n\tline2"'. The right pane displays the help text for the 'echo' command, including sections for NAME, SYNOPSIS, DESCRIPTION, and a list of options: -n, -e, -E, --help, and --version. The bottom of the right pane shows the prompt 'ge echo(1) line 1 (press h for help or q to quit)'.

```
1: rodri@CIS106: ~  
rodri@CIS106:~$ echo "hello world"  
hello world  
rodri@CIS106:~$ echo -n "hello world"  
hello worldrodri@CIS106:~$ echo -e "\thello world"  
hello world  
rodri@CIS106:~$ echo -e "\thello\nworld"  
hello  
world  
rodri@CIS106:~$ echo -e "line1\nline2"  
line1  
line2  
rodri@CIS106:~$ echo -e "line1\n\tline2"  
line1  
line2  
rodri@CIS106:~$ echo -e "\nline1\n\tline2"  
line1  
line2  
rodri@CIS106:~$ echo -e "\tline1\n\tline2"  
line1  
line2  
rodri@CIS106:~$  
ge echo(1) line 1 (press h for help or q to quit)
```

2: rodri@CIS106: ~
ECHO(1) User Commands ECHO(1)

NAME
echo - display a line of text

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

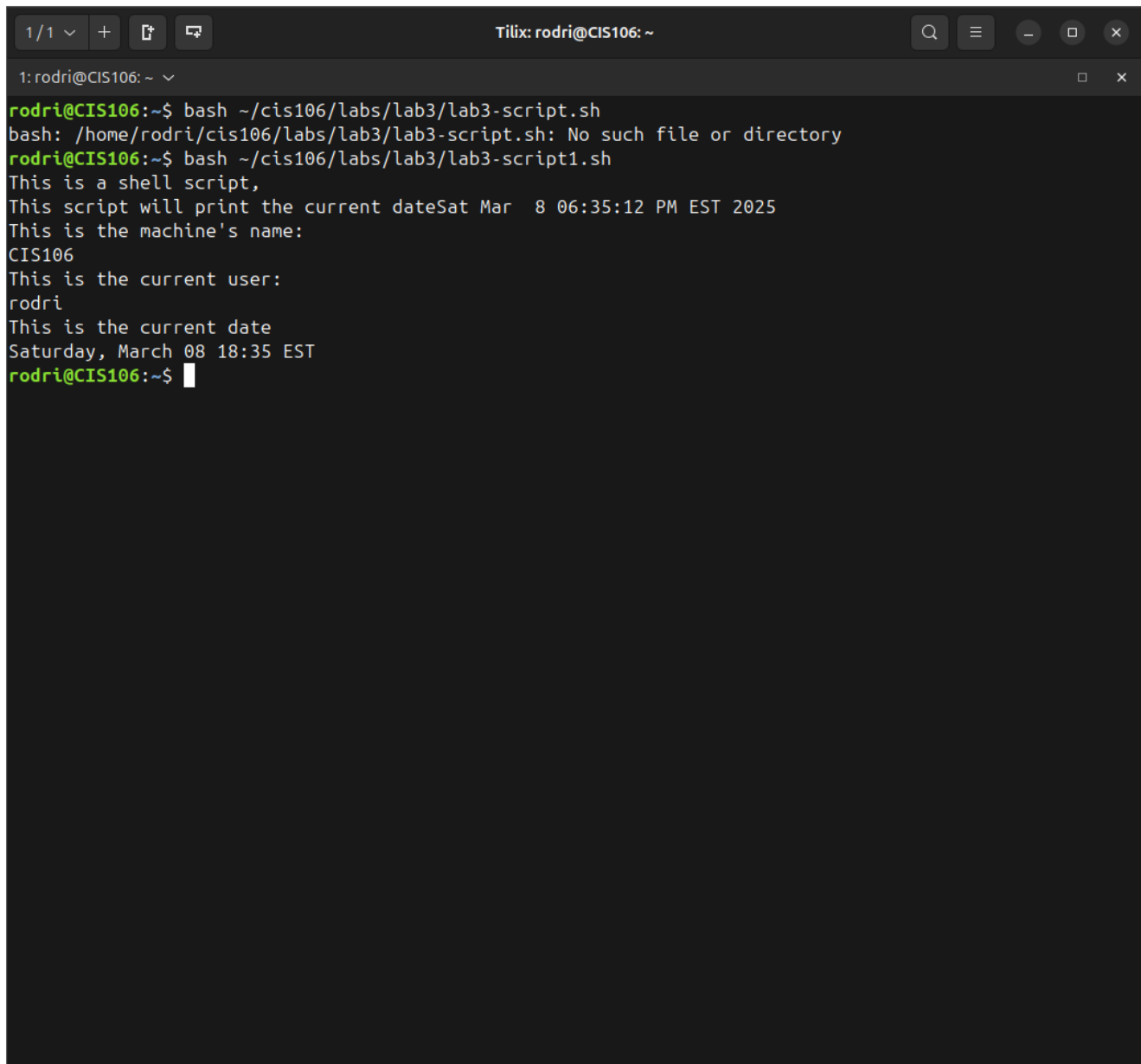
DESCRIPTION
Echo the STRING(s) to standard output.

-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:

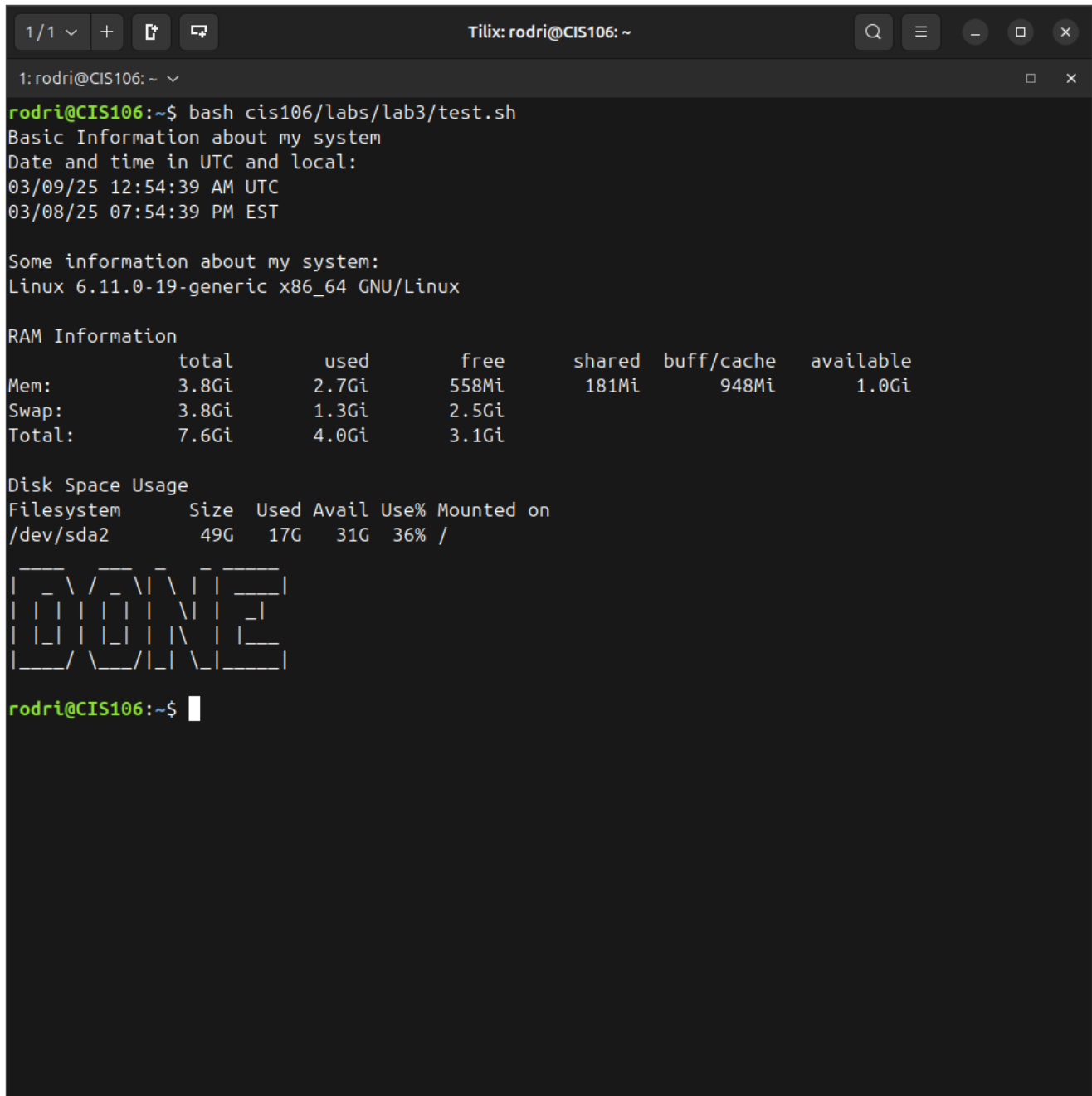
\ backslash
\a alert (BEL)
\b backspace
\c produce no further output
\e escape
\f form feed

Question 3

A terminal window titled 'Tilix: rodri@CIS106: ~' with standard window controls. The prompt is '1: rodri@CIS106: ~'. The user runs 'bash ~/cis106/labs/lab3/lab3-script.sh', which fails with 'No such file or directory'. Then the user runs 'bash ~/cis106/labs/lab3/lab3-script1.sh', which executes a script printing the date, machine name, and user.

```
1: rodri@CIS106: ~  
rodri@CIS106:~$ bash ~/cis106/labs/lab3/lab3-script.sh  
bash: /home/rodri/cis106/labs/lab3/lab3-script.sh: No such file or directory  
rodri@CIS106:~$ bash ~/cis106/labs/lab3/lab3-script1.sh  
This is a shell script,  
This script will print the current dateSat Mar  8 06:35:12 PM EST 2025  
This is the machine's name:  
CIS106  
This is the current user:  
rodri  
This is the current date  
Saturday, March 08 18:35 EST  
rodri@CIS106:~$
```

Challenge Question

A terminal window titled 'Tilix: rodri@CIS106: ~' showing the output of a script. The script prints system information including date, time, system details, RAM usage, and disk space usage, followed by a ASCII art logo.

```
1/1 v + [share] [copy]
Tilix: rodri@CIS106: ~
1: rodri@CIS106: ~ v
rodri@CIS106:~$ bash cis106/labs/lab3/test.sh
Basic Information about my system
Date and time in UTC and local:
03/09/25 12:54:39 AM UTC
03/08/25 07:54:39 PM EST

Some information about my system:
Linux 6.11.0-19-generic x86_64 GNU/Linux

RAM Information
      total      used      free   shared  buff/cache   available
Mem:    3.8Gi    2.7Gi    558Mi    181Mi     948Mi     1.0Gi
Swap:    3.8Gi    1.3Gi    2.5Gi
Total:   7.6Gi    4.0Gi    3.1Gi

Disk Space Usage
Filesystem      Size  Used Avail Use% Mounted on
/dev/sda2        49G   17G   31G  36% /

  _ _ \ / _ \ \ / \ _ _
 | | | | | | | | | |
 | | | | | | | | | |
 | _ _ \ / _ \ \ / \ _ _
 | _ _ \ / _ \ \ / \ _ _

rodri@CIS106:~$
```

Script Source code:

[lab3](#)