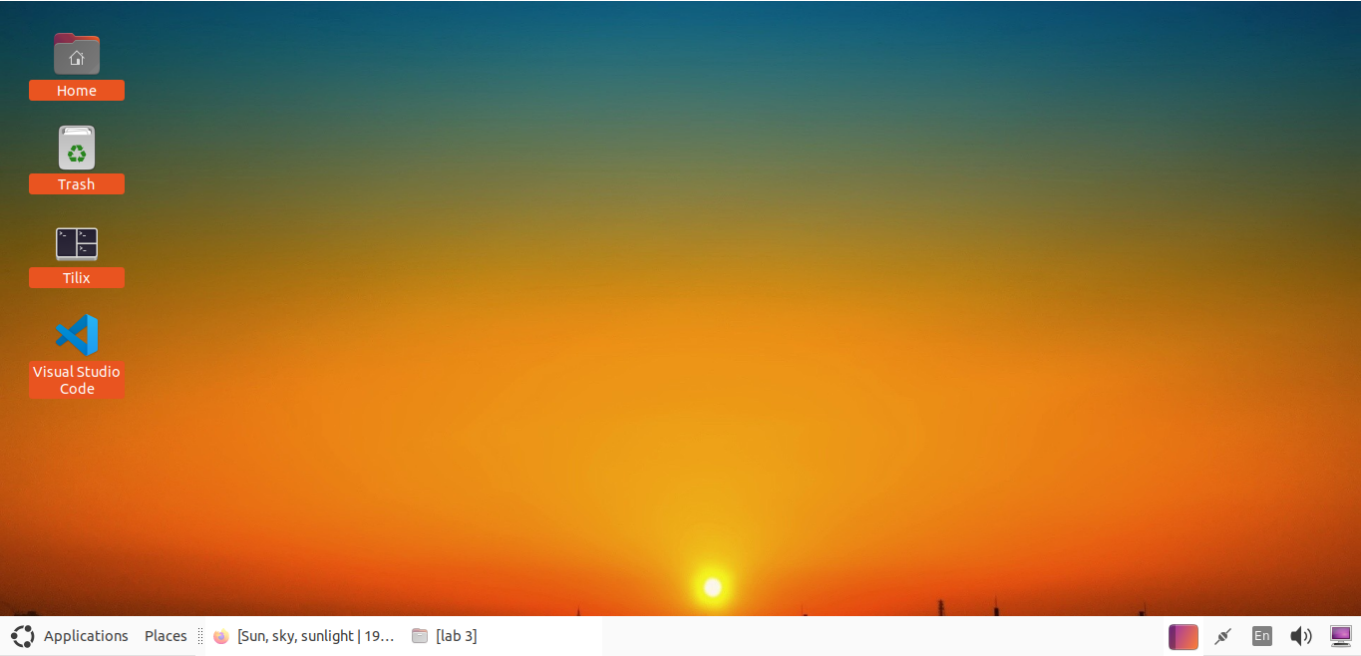


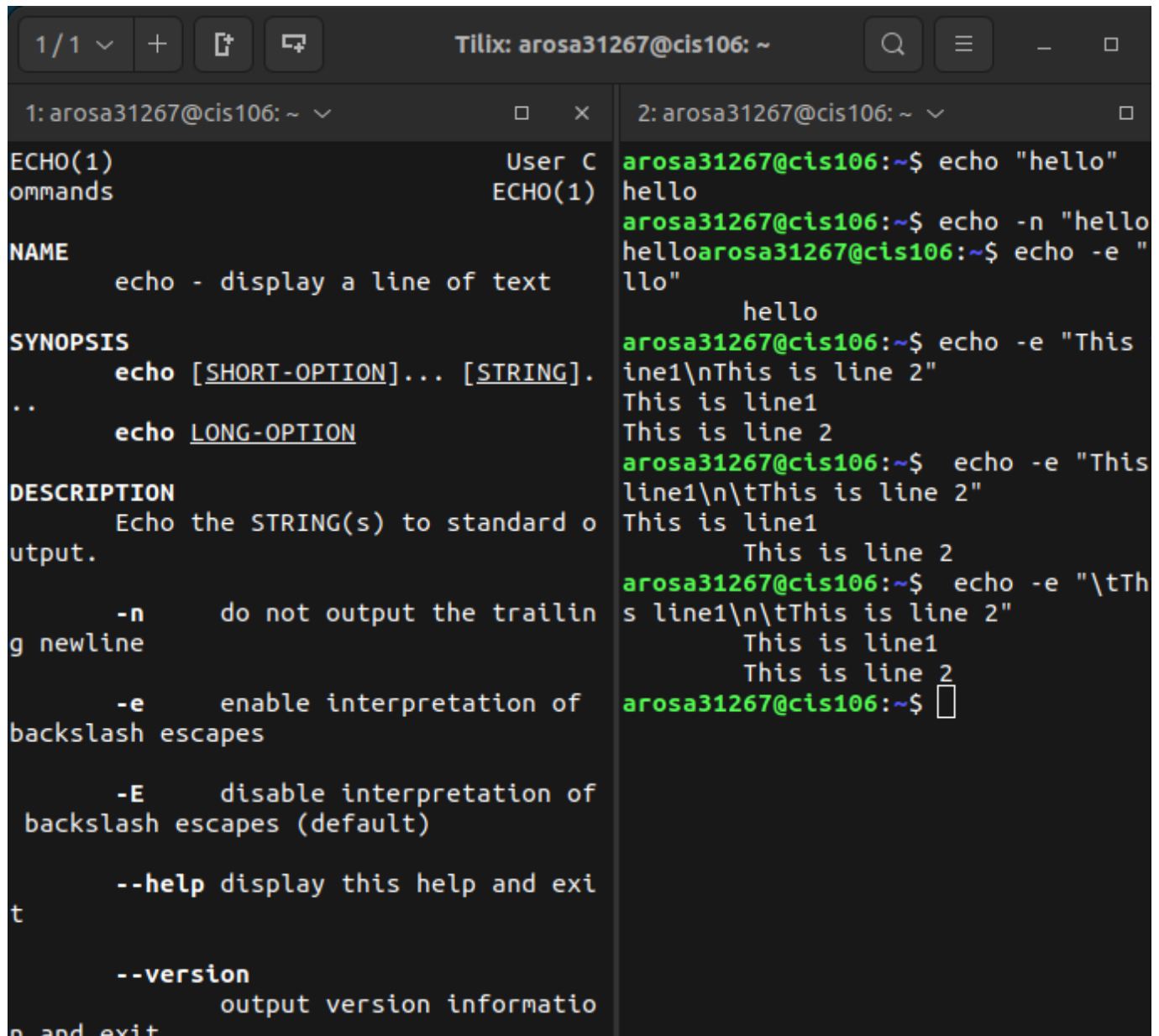
Lab 3 Submission

Question 1

q1.1



Question 2



The screenshot shows a Tilix terminal window with two panes. The left pane displays the man page for the 'echo' command, and the right pane shows the output of several 'echo' commands.

Left Pane (man echo):

```
1: arosa31267@cis106: ~
ECHO(1)                                User C
ommands                                ECHO(1)

NAME
    echo - display a line of text

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

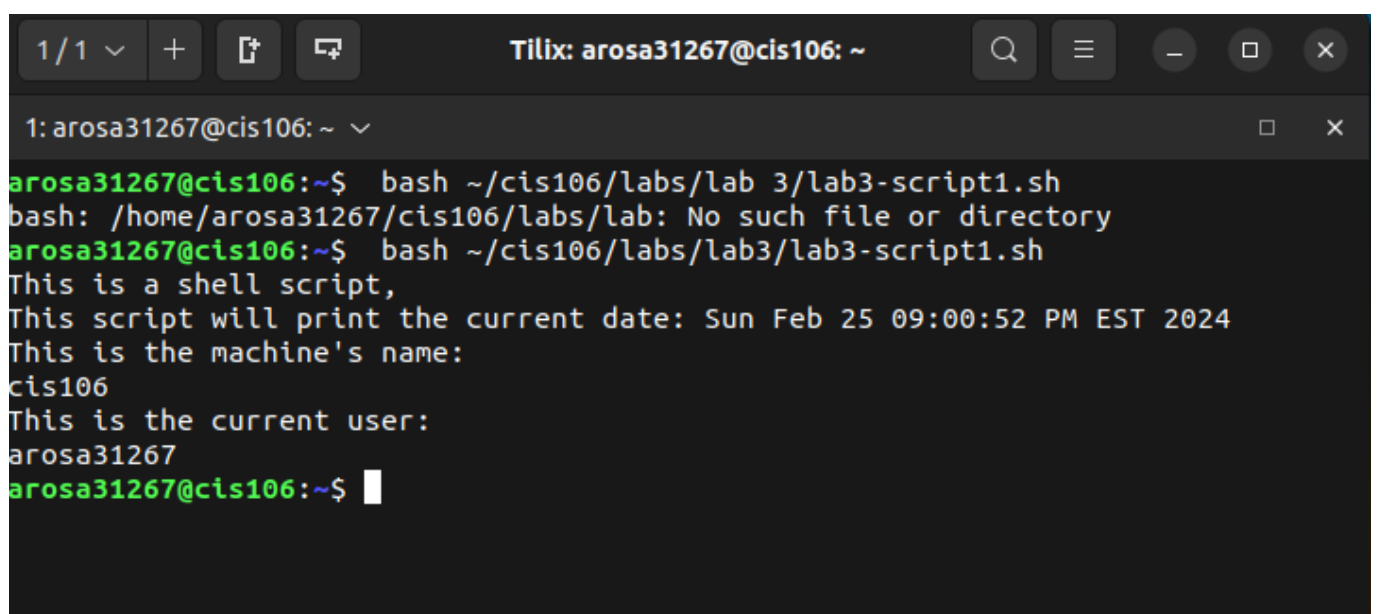
DESCRIPTION
    Echo the STRING(s) to standard output.

    -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
```

Right Pane:

```
aros31267@cis106:~$ echo "hello"
hello
aros31267@cis106:~$ echo -n "hello"
helloaros31267@cis106:~$ echo -e "
hello
    hello
aros31267@cis106:~$ echo -e "This
line1\nThis is line 2"
This is line1
This is line 2
aros31267@cis106:~$ echo -e "This
line1\n\tThis is line 2"
This is line1
    This is line 2
aros31267@cis106:~$ echo -e "\tTh
s line1\n\tThis is line 2"
    This is line1
    This is line 2
aros31267@cis106:~$
```

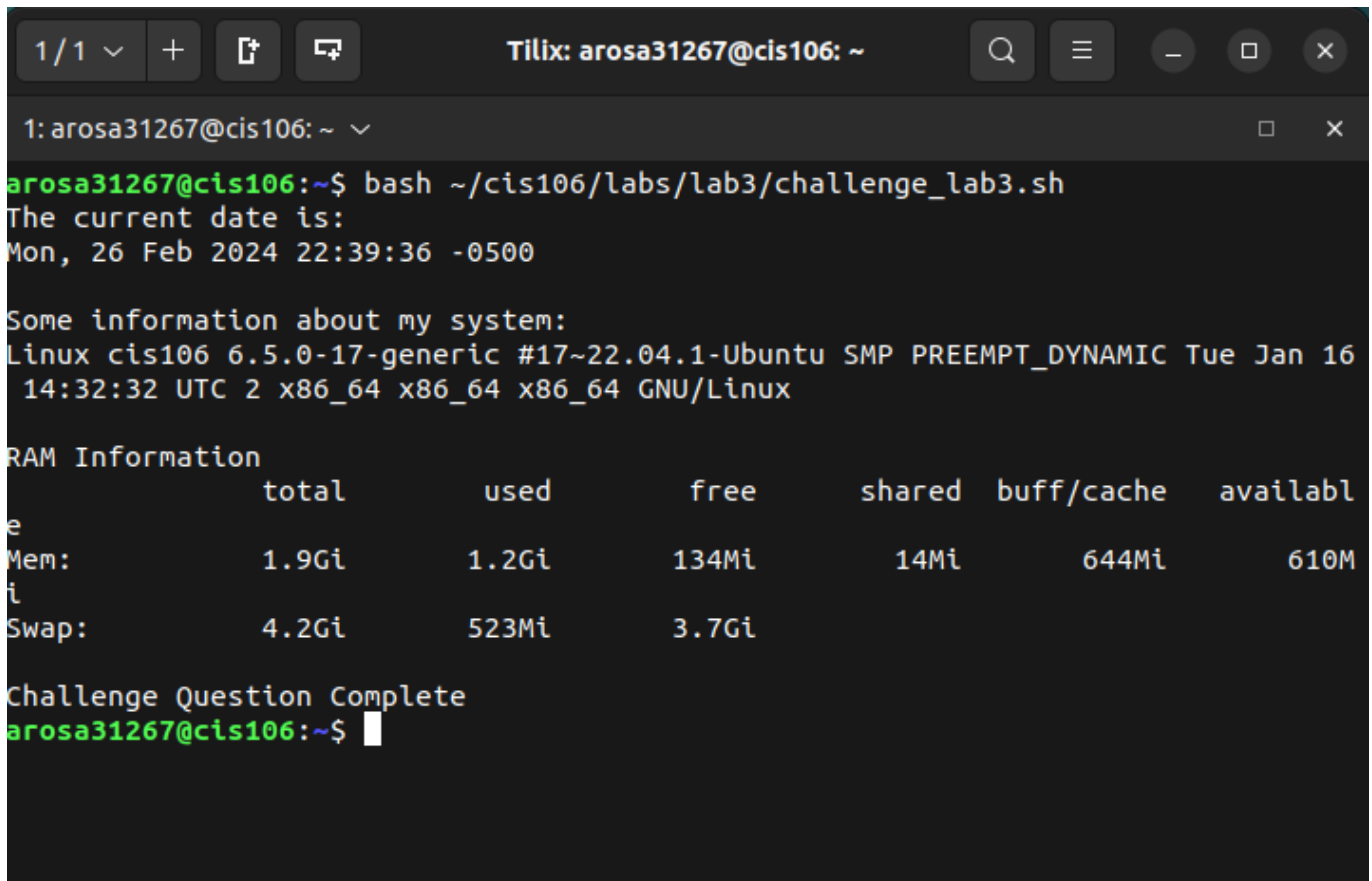
Question 3



The screenshot shows a Tilix terminal window with a single pane. The user has executed a shell script, and the output is displayed.

```
1: arosa31267@cis106: ~
aros31267@cis106:~$ bash ~/cis106/labs/lab 3/lab3-script1.sh
bash: /home/aros31267/cis106/labs/lab: No such file or directory
aros31267@cis106:~$ bash ~/cis106/labs/lab3/lab3-script1.sh
This is a shell script,
This script will print the current date: Sun Feb 25 09:00:52 PM EST 2024
This is the machine's name:
cis106
This is the current user:
aros31267
aros31267@cis106:~$
```

Challenge Question

A terminal window titled 'Tilix: arosa31267@cis106: ~' showing the execution of a script. The script outputs the current date, system information, and RAM usage. The RAM usage is displayed in a table format. The terminal output is as follows:

```
1: arosa31267@cis106: ~  
aros31267@cis106:~$ bash ~/cis106/labs/lab3/challenge_lab3.sh  
The current date is:  
Mon, 26 Feb 2024 22:39:36 -0500  
  
Some information about my system:  
Linux cis106 6.5.0-17-generic #17~22.04.1-Ubuntu SMP PREEMPT_DYNAMIC Tue Jan 16  
14:32:32 UTC 2 x86_64 x86_64 x86_64 GNU/Linux  
  
RAM Information  
total used free shared buff/cache availabl  
Mem: 1.9Gi 1.2Gi 134Mi 14Mi 644Mi 610M  
Swap: 4.2Gi 523Mi 3.7Gi  
  
Challenge Question Complete  
aros31267@cis106:~$
```

Script Source code:

[lab3](#)