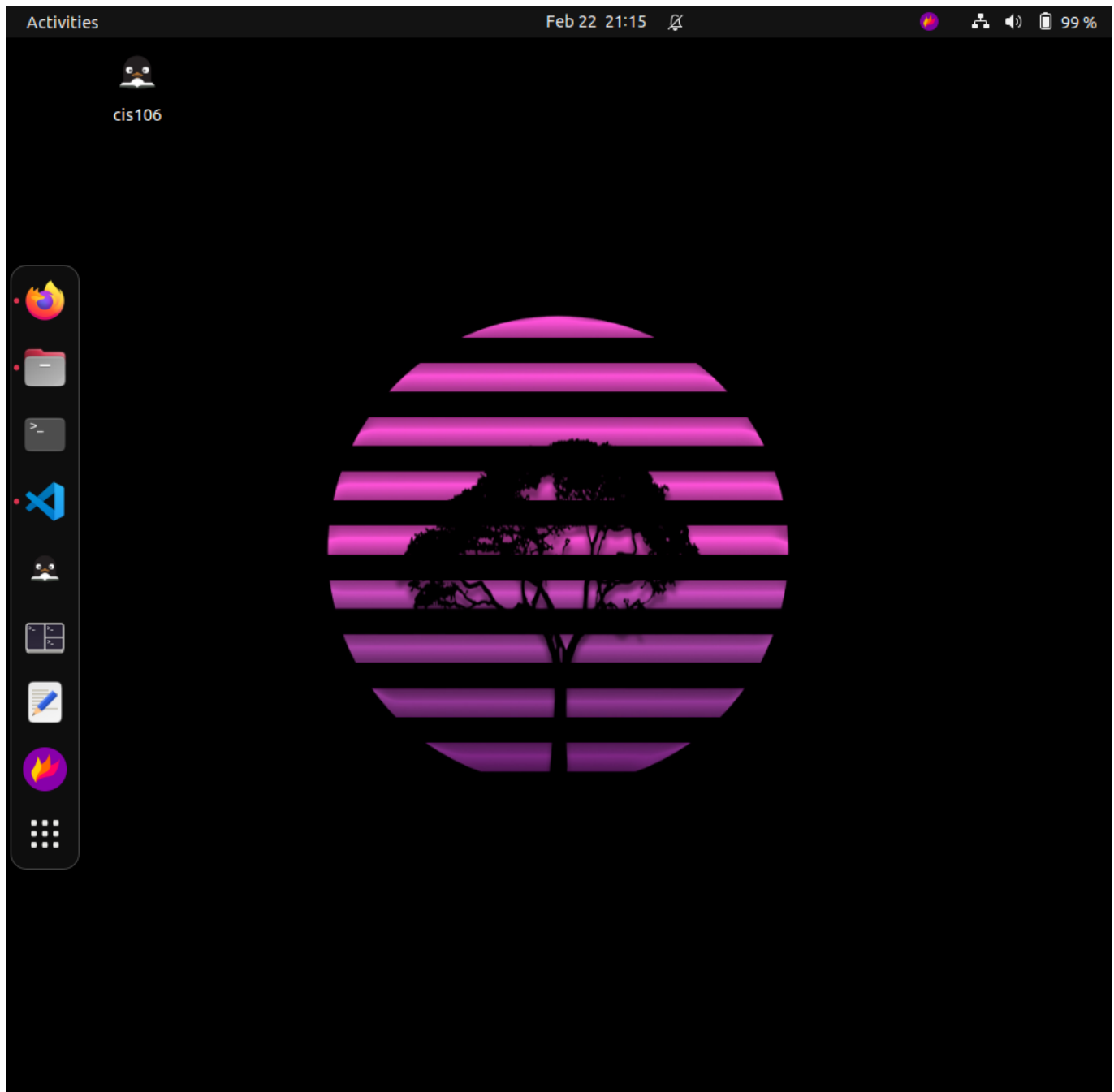
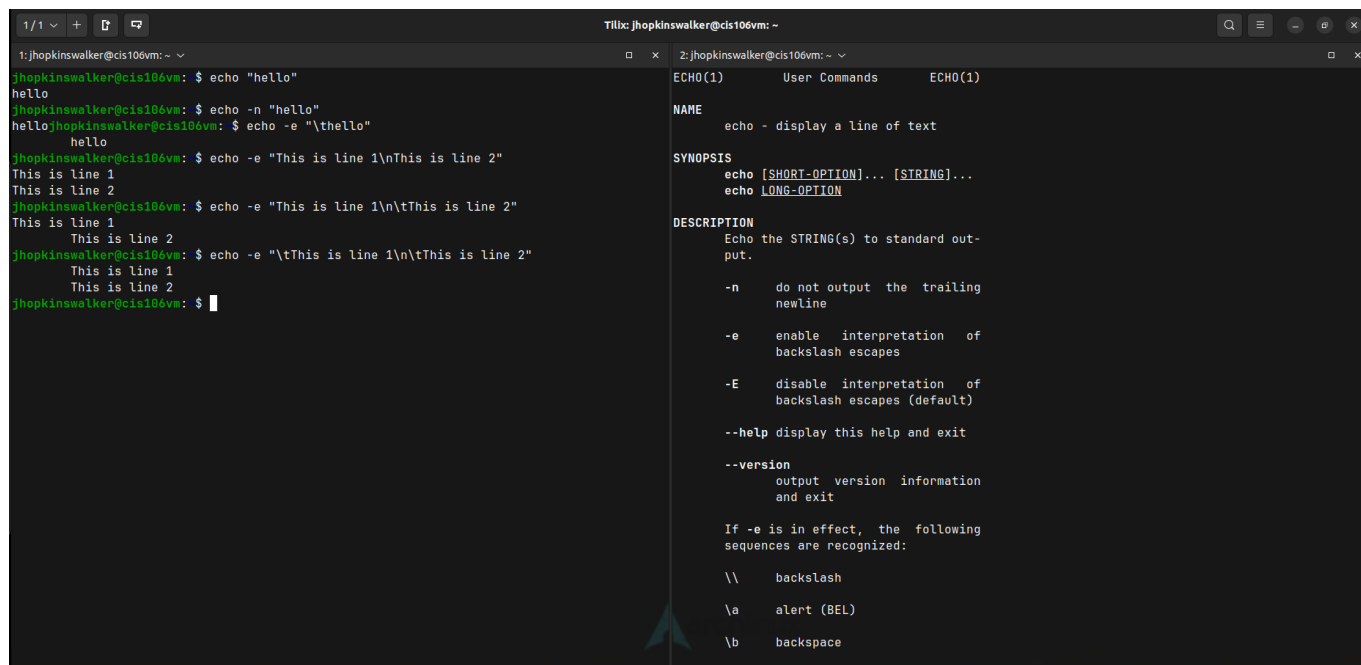


Lab 3 Submission

Question 1



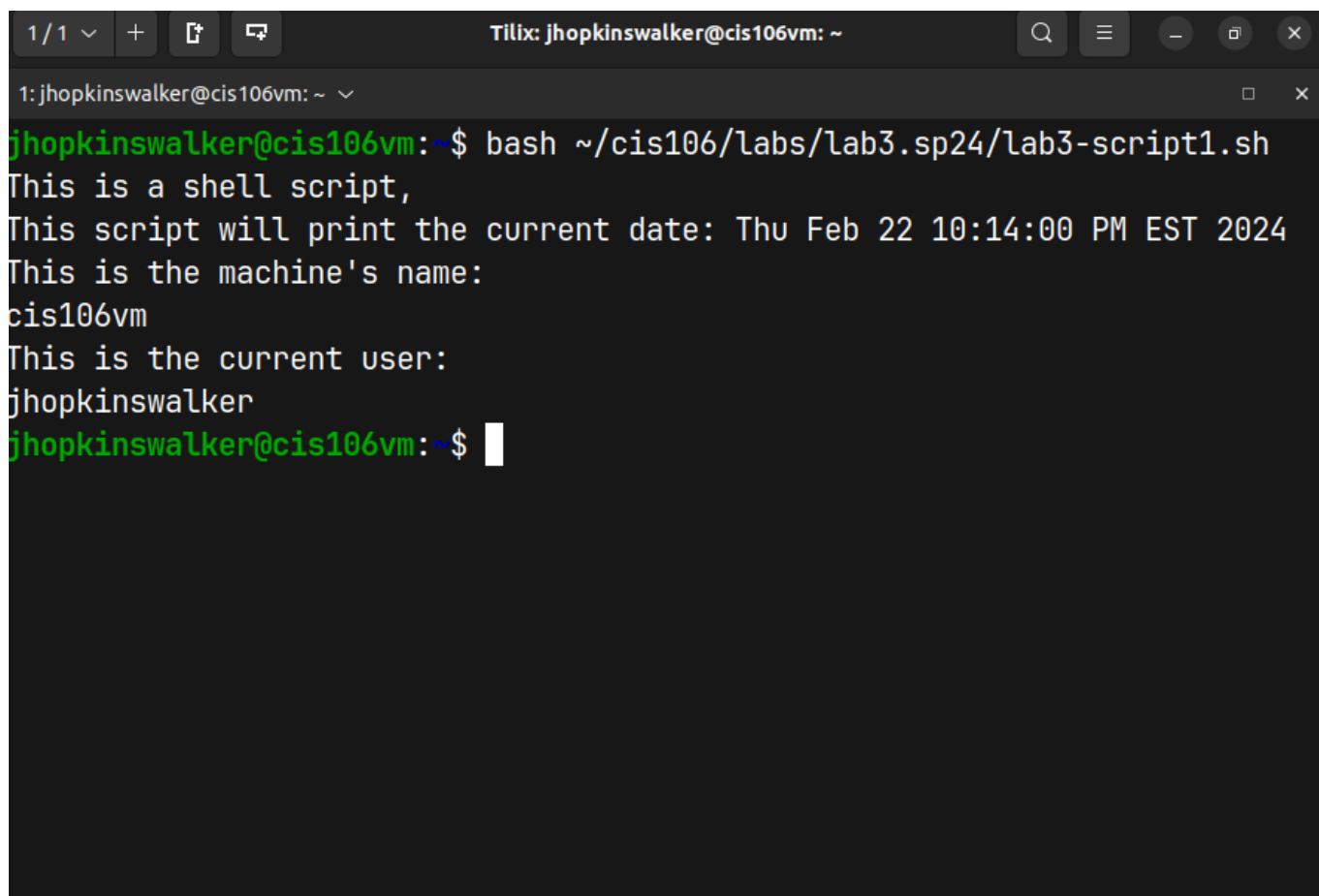
Question 2



The screenshot shows a terminal window with two panes. The left pane shows the user running several 'echo' commands to demonstrate different options: `echo "hello"`, `echo -n "hello"`, `echo -e "\thello"`, `echo -e "This is line 1\nThis is line 2"`, and `echo -e "\tThis is line 1\n\tThis is line 2"`. The right pane shows the help text for the 'echo' command, including its name, synopsis, description, and a list of options like `-n`, `-e`, `-E`, `--help`, and `--version`.

```
1: jhopkinswalker@cis106vm: ~  
jhopkinswalker@cis106vm:~$ echo "hello"  
hello  
jhopkinswalker@cis106vm:~$ echo -n "hello"  
hello  
jhopkinswalker@cis106vm:~$ echo -e "\thello"  
    hello  
jhopkinswalker@cis106vm:~$ echo -e "This is line 1\nThis is line 2"  
This is line 1  
This is line 2  
jhopkinswalker@cis106vm:~$ echo -e "This is line 1\n\tThis is line 2"  
This is line 1  
    This is line 2  
jhopkinswalker@cis106vm:~$ echo -e "\tThis is line 1\n\t\tThis is line 2"  
    This is line 1  
        This is line 2  
jhopkinswalker@cis106vm:~$  
  
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 out-  
    put.  
  
    -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
```

Question 3



The screenshot shows a terminal window where the user runs `bash ~/cis106/labs/lab3.sp24/lab3-script1.sh`. The script outputs the following text: `This is a shell script,`, `This script will print the current date: Thu Feb 22 10:14:00 PM EST 2024`, `This is the machine's name:`, `cis106vm`, `This is the current user:`, and `jhopkinswalker`.

```
1: jhopkinswalker@cis106vm: ~  
jhopkinswalker@cis106vm:~$ bash ~/cis106/labs/lab3.sp24/lab3-script1.sh  
This is a shell script,  
This script will print the current date: Thu Feb 22 10:14:00 PM EST 2024  
This is the machine's name:  
cis106vm  
This is the current user:  
jhopkinswalker  
jhopkinswalker@cis106vm:~$
```

Challenge Question

```
1: jhopkinswalker@cis106vm: ~  
jhopkinswalker@cis106vm: $ bash ~/cis106/labs/lab3.sp24/challenge_lab3.sh  
The current date is:  
Thu, 22 Feb 2024 23:37:11 -0500  
  
Some information about my system:  
Linux cis106vm 6.5.0-18-generic #18~22.04.1-Ubuntu SMP PREEMPT_DYNAMIC Wed Feb 7 1  
1:40:03 UTC 2 x86_64 x86_64 x86_64 GNU/Linux  
  
RAM Information  


|       | total | used  | free  | shared | buff/cache | available |
|-------|-------|-------|-------|--------|------------|-----------|
| Mem:  | 1.9Gi | 1.3Gi | 97Mi  | 41Mi   | 548Mi      | 452Mi     |
| Swap: | 4.2Gi | 1.4Gi | 2.8Gi |        |            |           |

  
Challenge Question Complete  
jhopkinswalker@cis106vm: $
```

Script Source code:

lab3 lab3

#I added another line for the challenge question script source code because I wasn't sure which script source code was needed.