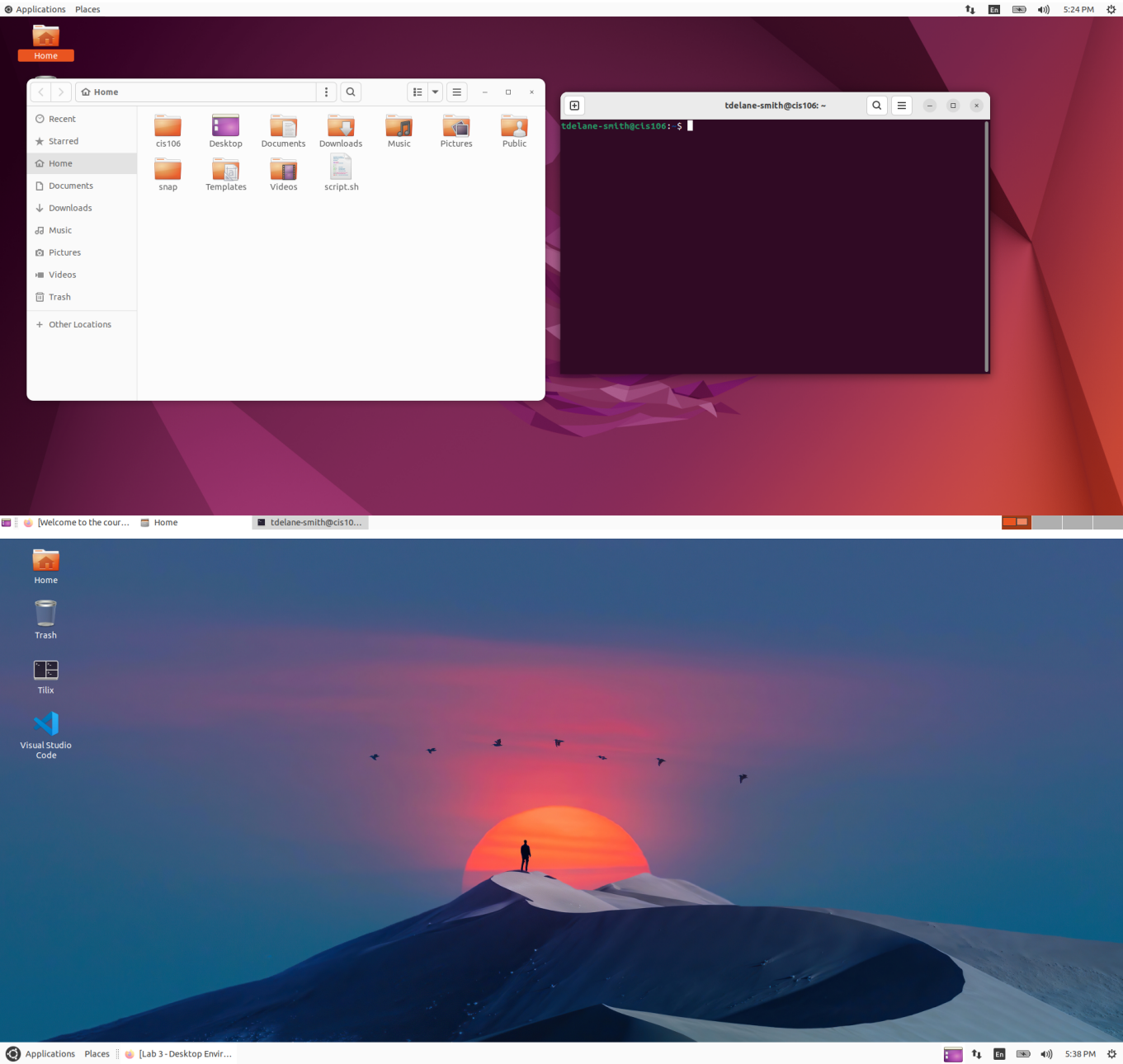


Lab 3 Submission

Question 1



Question 2

The screenshot shows a terminal window with two panes. The left pane shows the user testing the 'echo' command with various options: 'echo hello' (command not found), 'echo "hello"' (outputs hello), 'echo -m "hello"' (outputs -m hello), 'echo -n "hello"' (outputs Command 'echo' not found, did you mean: command 'echo' from deb coreutils (8.32-4.1ubuntu1) Try: sudo apt install <deb name>), 'echo -n "hello"' (outputs hellotdelane-smith@cis106:~\$), 'echo -e "\thello"' (outputs hello), 'echo -e "This is line1\nThis is line 2"' (outputs This is line1 This is line 2), 'echo -e "This is line1\n\tThis is line 2"' (outputs This is line1 This is line 2), and 'echo -e "\tThis is line1\n\tThis is line 2"' (outputs This is line1 This is line 2). The right pane shows the man page for 'echo', including its name, synopsis, description, and options.

```

1: tdelane-smith@cis106: ~
tdelane-smith@cis106:~$ "echo hello"
echo hello: command not found
tdelane-smith@cis106:~$ echo "hello"
hello
tdelane-smith@cis106:~$ echo -m "hello"
-m hello
tdelane-smith@cis106:~$ echo -n "hello"
Command 'echo' not found, did you mean:
  command 'echo' from deb coreutils (8.32-4.1ubuntu1)
Try: sudo apt install <deb name>
tdelane-smith@cis106:~$ echo -n "hello"
hellotdelane-smith@cis106:~$ echo -e "\thello"
hello
tdelane-smith@cis106:~$ echo -e "This is line1\nThis is line 2"
This is line1
This is line 2
tdelane-smith@cis106:~$ echo -e "This is line1\n\tThis is line 2"
This is line1
    This is line 2
tdelane-smith@cis106:~$ echo -e "\tThis is line1\n\tThis is line 2"
This is line1
    This is line 2
tdelane-smith@cis106:~$

2: tdelane-smith@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
  
```

Question 3

The screenshot shows a terminal window where the user runs a shell script located at ~/cis106/labs/lab3/lab3-script1.sh. The script outputs the current date (Sun Feb 18 06:44:04 PM EST 2024), the machine's name (cis106), and the current user (tdelane-smith).

```

1: tdelane-smith@cis106: ~
tdelane-smith@cis106:~$ bash ~/cis106/labs/lab3/lab3-script1.sh
This is a shell script,
This script will print the current date: Sun Feb 18 06:44:04 PM EST 2024
This is the machine's name:
cis106
This is the current user:
tdelane-smith
tdelane-smith@cis106:~$
  
```

Challenge Question

The screenshot shows a terminal window where the user runs a challenge script located at ~/cis106/labs/lab3/challenge_lab3.sh. The script outputs the current date and time (Thu, 15 feb 2024 02:09:38 +0000), some information about the 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), and raw information about system resources (Mem: 1.9Gi total, 1.1Gi used, 216Mi free; Swap: 4.2Gi total, 1.1Gi used, 3.1Gi free). The challenge is complete.

```

tdelane-smith@cis106:~$ bash ~/cis106/labs/lab3/challenge_lab3.sh
The current date is:
Thu, 15 feb 2024 02:09:38 +0000

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
Raw Information:
      total      used      free      shared  buff/cache   available
Mem:    1.9Gi     1.1Gi     216Mi       51Mi       580Mi       592Mi
Swap:    4.2Gi     1.1Gi     3.1Gi
Challenge Question Complete
tdelane-smith@cis106:~$
  
```

Script Source code:

[lab3](#)