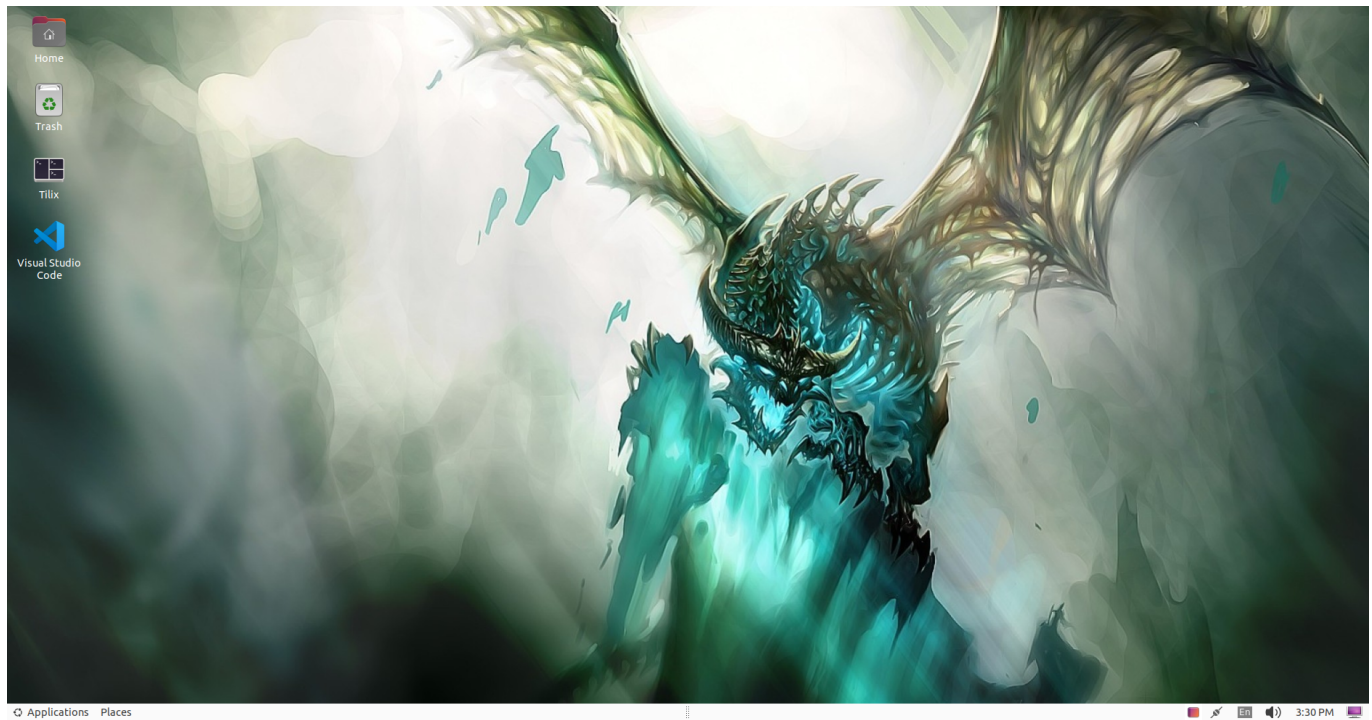
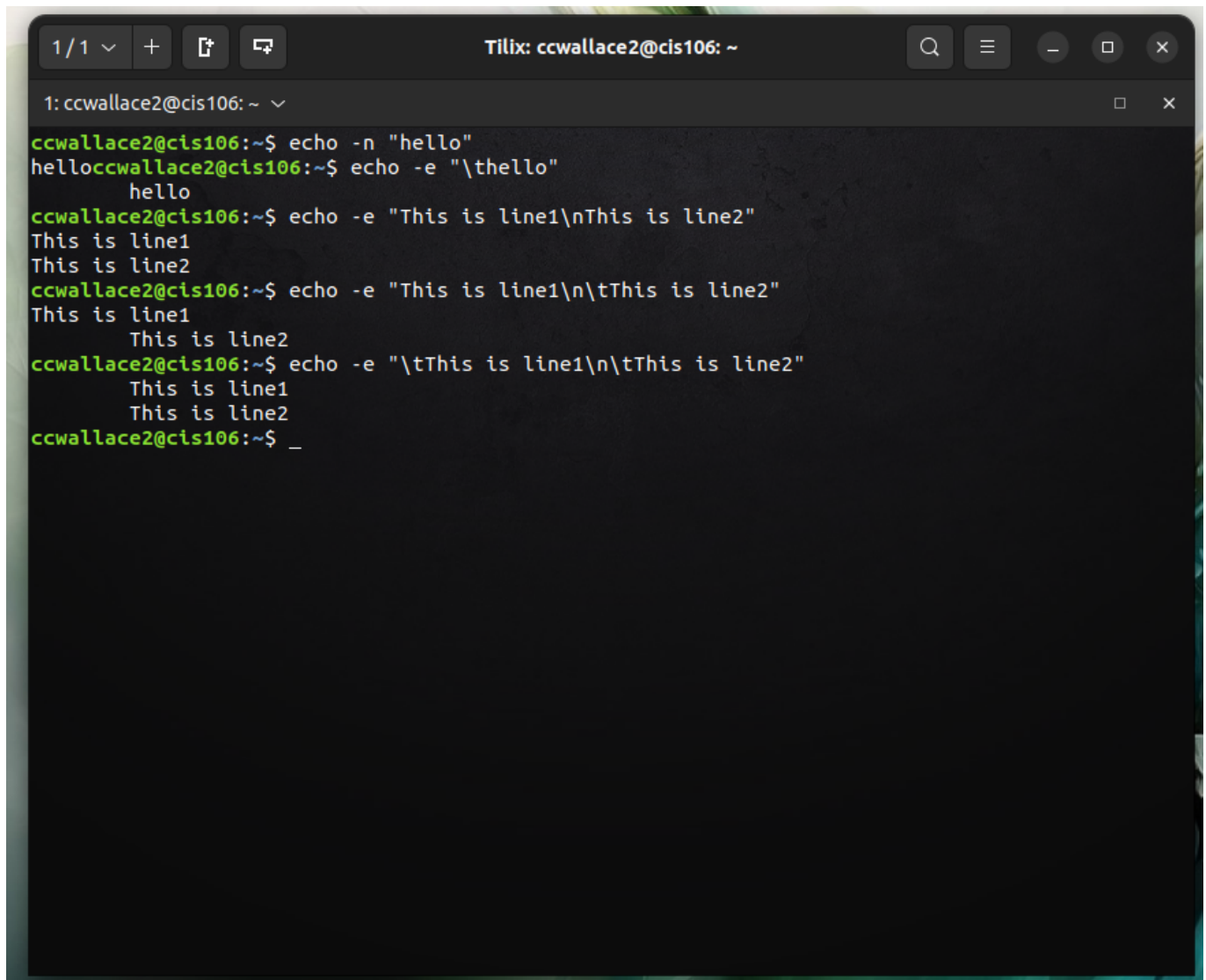


Lab 3 Submission

Question 1



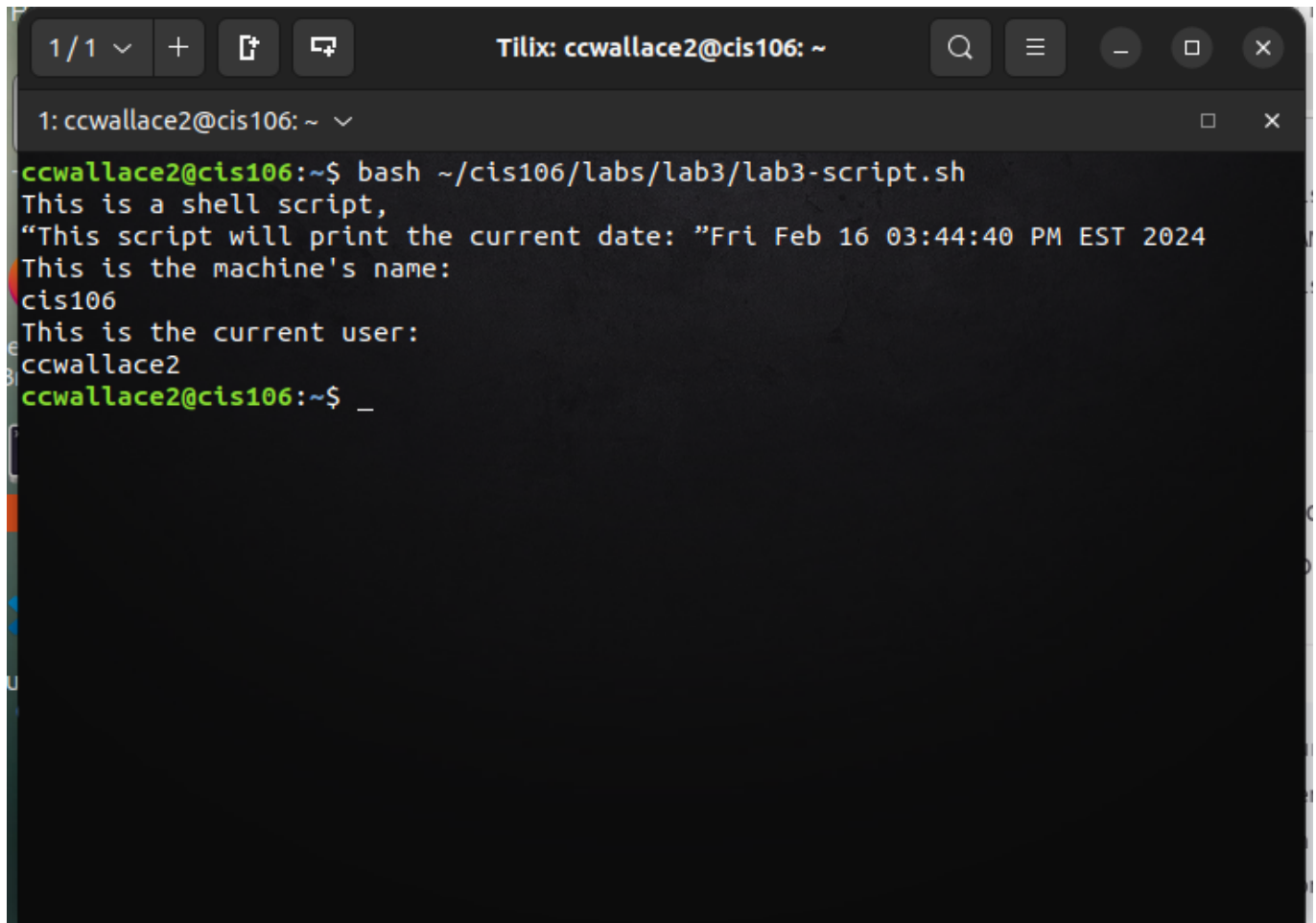
Question 2



A terminal window titled "Tilix: ccwallace2@cis106: ~" showing a series of shell commands and their outputs. The commands use the `echo` command with various options like `-n` and `-e` to demonstrate escape sequences for newlines (`\n`) and tabs (`\t`).

```
1: ccwallace2@cis106: ~  
ccwallace2@cis106:~$ echo -n "hello"  
helloccwallace2@cis106:~$ echo -e "\thello"  
    hello  
ccwallace2@cis106:~$ echo -e "This is line1\nThis is line2"  
This is line1  
This is line2  
ccwallace2@cis106:~$ echo -e "This is line1\n\tThis is line2"  
This is line1  
    This is line2  
ccwallace2@cis106:~$ echo -e "\tThis is line1\n\tThis is line2"  
    This is line1  
    This is line2  
ccwallace2@cis106:~$ _
```

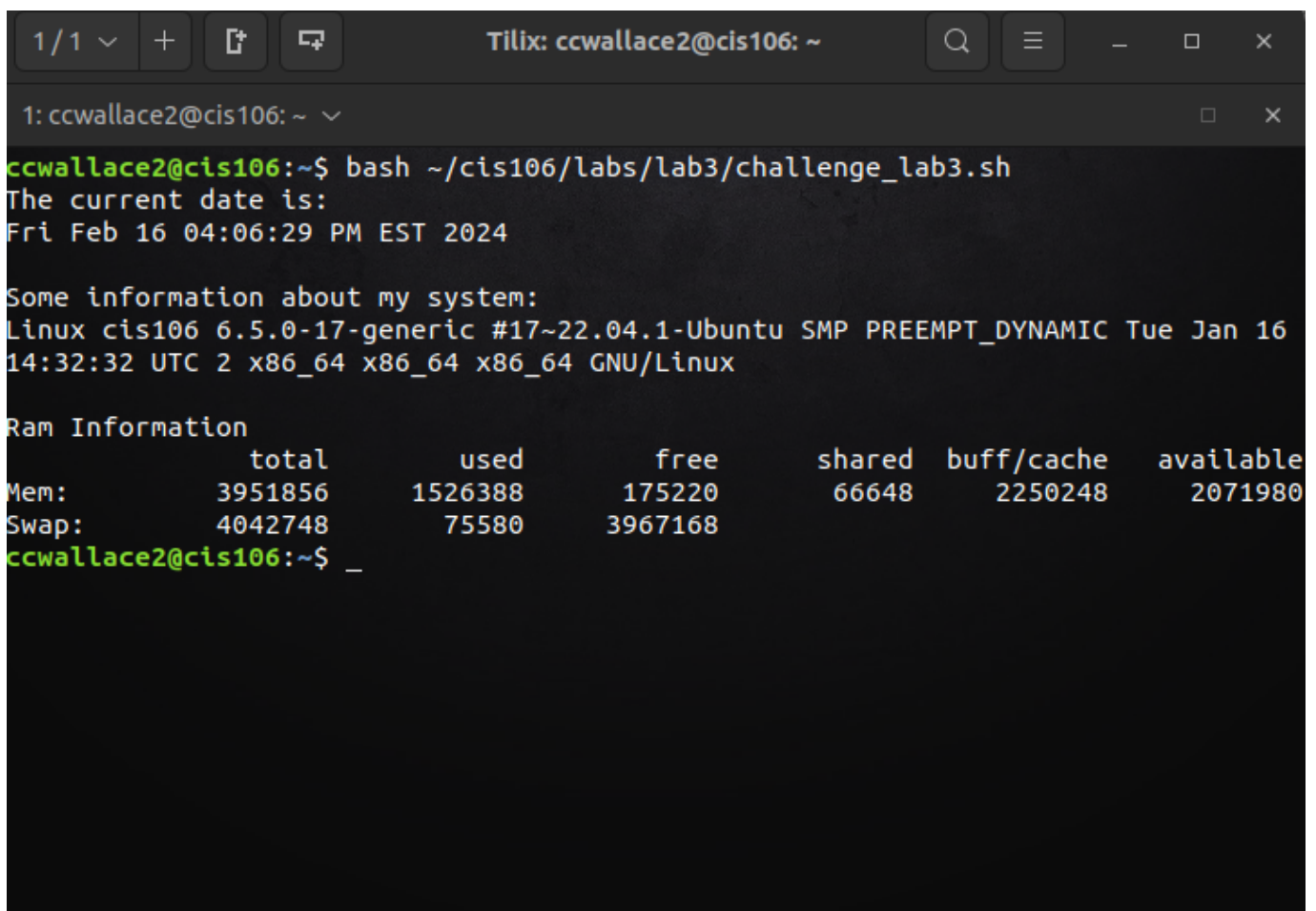
Question 3



A terminal window titled "Tilix: ccwallace2@cis106: ~" showing the execution of a script. The prompt is "1: ccwallace2@cis106: ~". The user enters "bash ~/cis106/labs/lab3/lab3-script.sh". The script outputs: "This is a shell script,", "This script will print the current date: "Fri Feb 16 03:44:40 PM EST 2024", "This is the machine's name:", "cis106", "This is the current user:", "ccwallace2". The prompt returns to "ccwallace2@cis106:~\$ _".

```
1: ccwallace2@cis106: ~  
ccwallace2@cis106:~$ bash ~/cis106/labs/lab3/lab3-script.sh  
This is a shell script,  
"This script will print the current date: "Fri Feb 16 03:44:40 PM EST 2024  
This is the machine's name:  
cis106  
This is the current user:  
ccwallace2  
ccwallace2@cis106:~$ _
```

Challenge Question



A terminal window titled "Tilix: ccwallace2@cis106: ~" showing the execution of a challenge script. The prompt is "1: ccwallace2@cis106: ~". The user enters "bash ~/cis106/labs/lab3/challenge_lab3.sh". The script outputs: "The current date is:", "Fri Feb 16 04:06:29 PM EST 2024", "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", and a table of memory usage.

```
1: ccwallace2@cis106: ~  
ccwallace2@cis106:~$ bash ~/cis106/labs/lab3/challenge_lab3.sh  
The current date is:  
Fri Feb 16 04:06:29 PM EST 2024  
  
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  available  
Mem:    3951856  1526388    175220    66648    2250248    2071980  
Swap:   4042748    75580    3967168  
ccwallace2@cis106:~$ _
```

Script Source code:

[lab3](#)