

# Lab 3 Submission

Student: Mohammed Assaf semester: Fall 24 Assignment: Lab 3

# Lab 3 Submission

## Question 2

1: maassaf45088@cis106: ~  
maassaf45088@cis106:~\$ echo "hello professor"  
hello professor  
maassaf45088@cis106:~\$ echo -n "hello professor"  
hello professormaassaf45088@cis106:~\$ echo -e "hello\professor"  
hello\professor  
maassaf45088@cis106:~\$ echo -e "hello\nprofessor"  
hello  
professor  
maassaf45088@cis106:~\$ echo -e "hello\n\t\vpfessor"  
hello  
professor  
maassaf45088@cis106:~\$ echo -e "\nhello\n\t\vpfessor"  
n\hello  
professor  
maassaf45088@cis106:~\$ echo -e "nhello\n\t\vpfessor"  
nhello  
professor  
maassaf45088@cis106:~\$ echo -e "\nhello\n\t\vpfessor"  
hello  
professor  
maassaf45088@cis106:~\$ echo -e "\thello\n\t\vpfessor"  
hello  
professor  
maassaf45088@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  
\n new line  
\r carriage return  
\t horizontal tab  
Manual page echo(1) line 1 (press h for help or q to quit)

## Question 3

```
1/1 + [Tilix: maassaf45088@cis106: ~]
1: maassaf45088@cis106: ~
maassaf45088@cis106:~$ bash ~/cis106/Labs/lab3/lab3-script1.sh
bash: /home/maassaf45088/cis106/Labs/lab3/lab3-script1.sh: No such file or directory
maassaf45088@cis106:~$ bash ~/cis106/Labs/lab3/lab3-script1.sh
bash: /home/maassaf45088/cis106/Labs/lab3/lab3-script1.sh: No such file or directory
maassaf45088@cis106:~$ bash ~/Music/cis106/Labs/lab3/lab3-script1.sh
bash: ~/Music/cis106/Labs/lab3/lab3-script1.sh: No such file or directory
maassaf45088@cis106:~$ bash ~/cis106/labs/lab3/lab3-script1.sh
bash: /home/maassaf45088/cis106/labs/lab3/lab3-script1.sh: No such file or directory
maassaf45088@cis106:~$ bash ~/cis106/Labs/lab3/lab3-script1.sh
bash: /home/maassaf45088/cis106/Labs/lab3/lab3-script1.sh: No such file or directory
maassaf45088@cis106:~$ bash ~/Music/cis106/Labs/lab3/lab3-script1.sh
This is a shell script,
This script will print the current dateSun Oct 13 10:24:31 PM EDT 2024
This is the machine's name:
cis106
This is the current user:
maassaf45088
This is the current date
Sunday, October 13 22:24 EDT
maassaf45088@cis106:~$
```

Challenge Question

```
lab3.md challenge_lab3.sh
1 #!/bin/bash
2 # Author: Mohammed Assaf
3 # Date: 10/13/24
4 # Description: Challenge question solution
5
6 # Display current UTC and local date and time
7 echo "Basic Information about my system"
8 echo "Date and time in UTC and local:"
9 echo $(date -u +%m/%d/%y %H:%M:%S %Z)
10 echo $(date +%m/%d/%y %H:%M:%S %Z)
11
12 # Display System information
13 echo
14 echo "Some information about my system:"
15 uname -a
16
17 # Display RAM information
18 echo
19 echo "RAM Information"
20 free -h
21
22 # Display Disk Space Usage
23 echo
24 echo "Disk Space Usage"
25 df -h |
26
27 # Display DONE message
28 echo
29 figlet "DONE"
```

```
1/1 + [Tilix: maassaf45088@cis106: ~]
1: maassaf45088@cis106: ~
maassaf45088@cis106:~$ bash ~/cis106/Labs/lab3/challenge_lab3.sh
Basic Information about my system
Date and time in UTC and local:
10/14/24 03:19:37 UTC
10/13/24 23:19:37 :Z

Some information about my system:
Linux cis106 6.8.0-45-generic #45-Ubuntu SMP PREEMPT_DYNAMIC Fri Aug 30 12:02:04 UTC 2024 x86_64 x86_64 x86_64 GNU/Linux

RAM Information
total      used      free   shared  buff/cache   available
Mem:    3.8Gi  2.8Gi    616Mi   286Mi    986Mi    1.1Gi
Swap:   3.8Gi  1.1Gi    2.7Gi

Disk Space Usage
maassaf45088@cis106:~$
```

Script Source code:

lab3