**Homework #4**

Using what you’ve learned so far in the course, specifically during week 5, answer the following questions.

Question 1. List 3 Linux/UNIX text editors.

Vim

Gedit

Nano Editor

Question 2. When vim is started, what mode is it in?

Command

Question 3. The following commands allow you to delete text in the vim editor: (Choose all that apply.)

a. c$

**b. dd**

**c. x**

d. W

**e. 3dw**

Question 4. To display the commands in a script as the script executes, what should be placed near the beginning of the script?

a. **#! /bin/bash**

b. **set -x**

c. **NAME=value**

d. **chmod +x**

e. **bash**

Question 5. Choose all of the following that describe a shell script:

**a. can be run as a command.**

b. a text editor like vim.

c. compiled code

**d. used to automate tasks.**

**e. a group of commands, functions, and variables, etc. that can be used from a shell.**

Question 6. What must be done prior to running a script (e.g. MyNewScript) as if it were to be executed as a program?

Name of the command interpreter must be in the first line of the script preceded by #!. Ex. #!/bin/bash

The execute bit for the schell script file must be sit. Ex. Chmod 700 myscript

Question 7. What are the differences between the following vim commands?

1. **a** and **A**

a adds a command. A adds at the end of the command.

1. **o** and **O**

o opens below the command. O opens above the command.

1. **i** and **I**

i inserts a command. I inserts at the beginning of the command.

Question 8. Write a shell script to output the user’s identity, the current date/timestamp, and a list of current aliases and environment variables. **[Show your script and the results of running it. Remember to comment your work]**

-bash-4.2$ cat q8

#!/bin/bash

#Jacob Metcalfe

#Program that writes the user's identity, current date, and a list of current aliases and environment variables

echo $USER #Prints user

echo $(date) #Prints the date

echo $(alias) #Prints the list of aliases

echo "$(printenv)" #Prints environment variables

Results

-bash-4.2$ ~/q8

jmetcalf

Wed Sep 26 21:20:36 MDT 2018

XDG\_SESSION\_ID=7944

HOSTNAME=needmorecoffee.uccs.edu

SELINUX\_ROLE\_REQUESTED=

SHELL=/bin/bash

TERM=xterm

HISTSIZE=1000

SSH\_CLIENT=128.198.53.48 56556 22

SELINUX\_USE\_CURRENT\_RANGE=

SSH\_TTY=/dev/pts/2

USER=jmetcalf

LS\_COLORS=rs=0:di=01;34:l