**Quiz 4**

1. Write a script to delete blank lines in a file. Use cat and awk

cat file.txt | tr -s '\n' '\n'

2. Write a script to delete duplicate lines

#!/bin/bash

declare -A arr

shopt -s globstar

for file in \*\*; do

[[ -f "$file" ]] || continue

read cksm \_ < <(md5sum "$file")

if ((arr[$cksm]++)); then

echo "rm $file"

fi

done

3. Write a shell script to delete a directory tree.

./script.sh <directory>

rm -rf /path/to/directory/\*

4. Write a shell script to see if a process is running.

Hint: Parse output of ps command

Ps -ef | grep process ID

5. Write a shell script to display the following:

Hostname, disk space usage, free & used memory, uptime and logged in users.

#!/bin/bash

#hoststname information:

echo -e "\e[31;43m\*\*\*\*\* HOSTNAME INFORMATION \*\*\*\*\*\e[0m"

hostnamectl

echo ""

#diskspace

echo -e "\e[31;43m\*\*\*\*\* FILE SYSTEM DISK SPACE USAGE \*\*\*\*\*\e[0m"

df -h

echo ""

#Free and used memory in the system:

echo -e "\e[31;43m \*\*\*\*\* FREE AND USED MEMORY \*\*\*\*\*\e[0m"

free

echo ""

#System uptime:

echo -e "\e[31;43m\*\*\*\*\* SYSTEM UPTIME AND LOAD \*\*\*\*\*\e[0m"

uptime

echo ""

#Logged-in users:

echo -e "\e[31;43m\*\*\*\*\* CURRENTLY LOGGED-IN USERS \*\*\*\*\*\e[0m"

who

echo ""

6. Write a shell script to display syntax of a given command

Command [option(s)] [string(s)]

7. Write a shell to check if a command is in PATH directory list

[ -d "/path/to/dir" ] && echo "Directory /path/to/dir exists."

8. Write a shell script to transfer a file using ftp and scp.

Read about how to use ftp and scp commands in scripts. Come up with your own example.

ftp -n $HOST > /tmp/file1.txt> /var/path/ <<END\_SCRIPT

$ scp -i ~/.ssh/id\_rsa devops@myserver.org:/path/to/bin/\*.derp .

9. Write a shell script to delete files older than a week.

find /media/bkfolder/ -mtime +7 -name'\*.' -exec rm {} \;

11. Write a shell script that Searches down the directory tree from current directory, change the group owner of files in a directory to another group.

You should also check if new group exists, else, error out.

./script.sh oldgroup newgroup

chgrp scifi myfile

the group ownership on myfile is changed to the group scifi.

12. Write a shell script to list files in size order, smallest first.

Hint: ls and sort commands

du -ah ~/Downloads/ | sort -h