**Quiz 4**

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

Ans: Cat filename | awk ‘NF’

1. Write a script to delete duplicate lines

Ans: sort {filename} | uniq -u

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

./script.sh <directory>

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

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

Hint: Parse output of ps command

Ans: ps-ef | grep processname

5. Write a shell script to display the following:

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

Ans: #!/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

Ans: command [option] [string]

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

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.

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

Ans: find ./my dir -mtime +7 – type f -delete

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

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

Hint: ls and sort commands

Ans: For Ascending order : ls -lsh