Write and execute a shell script to do the following.

4. To illustrate directory/folder related commands.

#Shell script to illustrate directory/folder related commands

clear

echo The present working directory is

pwd

echo the files and directories in the present working directory are

ls -

echo create new directory 4semcse

mkdir 4semcse

echo change present working directory to 4semcse

cd 4semcse

pwd

ls -l

echo change present working directory to one level back

cd ..

pwd

echo remove newly created directory 4semcse

rmdir 4semcse

Is 4semcse

Write and execute a shell script to do the following.

5. To illustrate file related commands

#Shell script to illustrate file related commands

clear

echo Create new file file1.txt

touch file1.txt

Is -I file1.txt

echo Copy file1.txt to file2.txt

cp file1.txt file2.txt

ls -I file2.txt

echo Delete file2.txt

rm file2.txt

Is -I file2.txt

echo Move the content of file1.txt to file2.txt

mv file1.txt file2.txt

Is -I file1.txt

Write and execute a shell script to do the following.

6. To illustrate pipes and filters.

#Shell script to illustrate pipes and filters

clear

echo The file2.txt content is

cat file2.txt
echo The first line is
cat file2.txt | head -1
echo The last line is
cat file2.txt | tail -1
echo The line by line content is
cat file2.txt | more -1
echo give all permissions to all users for file2.txt
chmod a+rwx file2.txt
ls -I file2.txt
touch file1.txt
echo give all permissions to all users for file1.txt
chmod 777 file1.txt

Write and execute a shell script to do the following. 7. To illustrate text processing commands. #Shell script to illustrate text processing commands clear echo The file3.txt content is cat file3.txt echo The file3.txt content after sorting sort -n file3.txt echo The uniq content of file3.txt uniq file3.txt echo The file3.txt size is Is -I file3.txt | cut -d " " -f5 echo Check 3 is present in file3.txt or not grep 3 file3.txt echo File3.txt statistics is wc file3.txt echo Replace Digits with A in file3.txt tr "0-9" "A" < file3.txt echo Insert line numbers in a file3.txt nl file3.txt

Write and execute a shell script to do the following.

8. To illustrate exec command.

#Shell script to illustrate exec command

exec > execoutput.txt

pwd

cal

```
Write and execute a shell script to do the following.
9. To illustrate Memory Management commands.
#Shell script to illustrate Memory Management commands
clear
nohup bash -c 'cal && ls' > output.txt
ps -T
top -H | head
free -m | head
cat /proc/meminfo | head
vmstat
Write and execute a shell script to do the following.
10. To check word is present in a sentence or not.
#Shell script to check word is present in a sentence or not.
clear
echo Enter Main String Separated by space
read str
echo Enter Search String
read key
for word in $str
do
if [ $key = $word ]
echo Element Present
exit
done
echo Element NOT Present
Write and execute a shell script to do the following.
11. To Read the contents of a file and display the same on Screen (Demo cat command).
#Read the contents of a file and display the same on Screen (Demo cat command).
clear
read -p "Enter file name: " filename
echo The content of $filename is
while read line
do
echo $line
done < $filename
```

Write and execute a shell script to do the following.

12. To Count number of lines, words, and Characters in given file.

#Count number of lines, words, and Characters in given file.

echo Enter the filename

read file

c='cat \$file | wc -c'

w=`cat \$file | wc -w`

I=`grep -c "." \$file`

echo Content of the address file

cat address

echo Number of characters in \$file is \$c

echo Number of words in \$file is \$w

echo Number of lines in \$file is \$I

Write and execute a shell script to do the following.

13. To illustrate network management commands.

#Shell script to illustrate network management commands.

clear

echo Memory Consumption statistics

free

echo Display available interfaces.

ifconfig -a | head

echo Display short list available interfaces.

ifconfig -s | head

echo List all tcp ports.

netstat -at | head

echo List statistics for all ports.

netstat -s | head

echo Kernel Routing Information

netstat -r | head

Write and execute a shell script to do the following.

14. To illustrate system maintenance and storage commands.

#Shell script to illustrate system maintenance and storage commands.

clear

echo Running process details are

top | head

echo Disk space information

df | head

echo Display processor information

cat /proc/cpuinfo | head

echo Display memory statistic

cat /proc/meminfo | head

echo Lists out all the storage blocks, which includes disk partitions and optical drives.