



EXPERIMENT 4

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CSE SEM 3

OPERATING SYSTEM (COM-312)

Experiment4:

(A) Write a shell script that determines the period for which a specified user is working on the system.

Command: nano filename.sh

Script: echo "enter the desired username:"

read user

last \$user

Terminal: chmod +x filename

./nameofthefile.sh

```
1 echo "enter the filename"
2 read user
3 last $user
```

```
amandeep@amandeep-VirtualBox:~/Desktop$ gedit filename.sh
amandeep@amandeep-VirtualBox:~/Desktop$ chmod +x filename.sh
amandeep@amandeep-VirtualBox:~/Desktop$ ./filename.sh
enter the filename
Amandeep

wtmp begins Fri Sep 16 13:14:59 2022
amandeep@amandeep-VirtualBox:~/Desktop$
```

(B) Write a shell script that displays all the lines between start and end line numbers passed as arguments.

Command: nano filename.sh

Script: echo "enter the filename:" Read
fname

echo "enter the starting line number:"

read s

echo "enter the ending line number:"

read n

sed -n \$s,\$n\p \$fname

Terminal: chmod +x filename

./nameofthefile.sh

```
echo "enter the filename:"
read fname
echo "enter the starting line number:"
read s
echo "enter the ending line number:"
read n
sed -n $s,$n\p $fname
```

```
vanshak@HP-laptop:/mnt/$ cat f3.txt
hello how are you
welcome to miet
this is cse branch
this is 3rd sem
vanshak@HP-laptop:/mnt/$ ./exp4b.sh
enter the filename:
f3.txt
enter the starting line number:
1
enter the ending line number:
3
hello how are you
welcome to miet
this is cse branch
```

(C) Write a shell script that deletes all lines containing a specified word in one or more files supplied as arguments to it.

Command: nano filename.sh

Script: if [\$# -eq 0]

then

echo No Arguments

else

pattern=\$1

shift

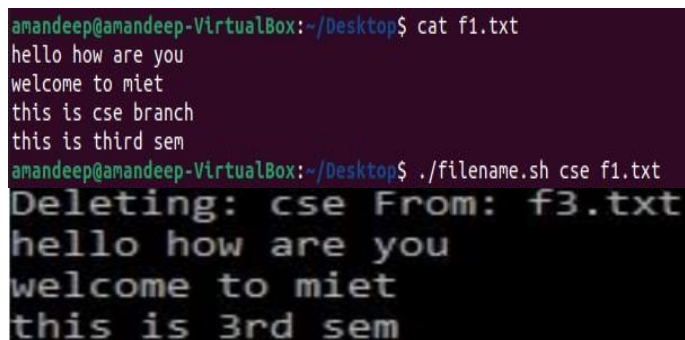
for fname in \$*

do

```
if [ -f $fname ]
then
echo Deleting: $pattern From: $fname
sed '/$ pattern'/d' $fname
else
echo $fname: File name not found
fi
done
fi
```

Terminal: chmod +x filename

./nameofthefile.sh

A terminal window screenshot with a dark purple background. The prompt is 'amandeep@amandeep-VirtualBox:~/Desktop\$'. The user enters 'cat f1.txt' and the output is 'hello how are you', 'welcome to miet', 'this is cse branch', and 'this is third sem'. Then the user enters './filename.sh cse f1.txt' and the output is 'Deleting: cse From: f3.txt', followed by the same four lines of text as before.

```
amandeep@amandeep-VirtualBox:~/Desktop$ cat f1.txt
hello how are you
welcome to miet
this is cse branch
this is third sem
amandeep@amandeep-VirtualBox:~/Desktop$ ./filename.sh cse f1.txt
Deleting: cse From: f3.txt
hello how are you
welcome to miet
this is 3rd sem
```