



EXPERIMENT 4

NAME: SUDANSHI SEHGAL

ROLL NO.: 2021A1R156

SUBJECT: OPERATING SYSTEM

SEMESTER: 3rd

COURSE CODE: COM-312

CO-ORDINATER:

Ms. PRAGTI JAMWAL

Mr. SAURABH SHARMA

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 desire user name"
2 read a
3 last $a
4
```

```
sudanshi@sudanshi:~/Desktop$ nano file1.sh
sudanshi@sudanshi:~/Desktop$ chmod +x file1.sh
sudanshi@sudanshi:~/Desktop$ ./file1.sh
enter the desire user name
sudanshi
sudanshi tty2          tty2          Fri Nov  4 13:07      still logged in
sudanshi tty2          tty2          Thu Nov  3 20:16 - crash (16:50)
sudanshi tty2          tty2          Thu Nov  3 19:55 - crash (00:21)
sudanshi tty2          tty2          Wed Nov  2 23:23 - crash (20:31)
sudanshi tty2          tty2          Wed Nov  2 09:44 - crash (13:38)
sudanshi tty2          tty2          Tue Nov  1 23:07 - crash (10:37)
sudanshi tty2          tty2          Tue Nov  1 20:28 - crash (02:38)
sudanshi tty2          tty2          Tue Oct 11 18:07 - crash (21+02:19)
sudanshi tty2          tty2          Tue Oct 11 17:52 - crash (00:15)
sudanshi tty2          tty2          Sat Oct  8 21:28 - crash (2+20:23)
sudanshi tty2          tty2          Fri Oct  7 13:09 - crash (1+08:18)
sudanshi tty2          tty2          Fri Oct  7 09:51 - crash (03:18)
sudanshi tty2          tty2          Sun Oct  2 21:31 - crash (4+12:18)
sudanshi tty2          tty2          Sun Oct  2 21:21 - crash (00:09)
sudanshi tty2          tty2          Sat Oct  1 13:30 - crash (1+07:51)
sudanshi tty2          tty2          Sat Oct  1 13:17 - crash (00:12)
sudanshi tty2          tty2          Fri Sep 30 18:18 - crash (18:58)
sudanshi tty2          tty2          Fri Sep 30 18:15 - down (00:04)
sudanshi tty2          tty2          Fri Sep 30 17:50 - down (00:24)

wtmp begins Fri Sep 30 17:50:28 2022
sudanshi@sudanshi:~/Desktop$
```

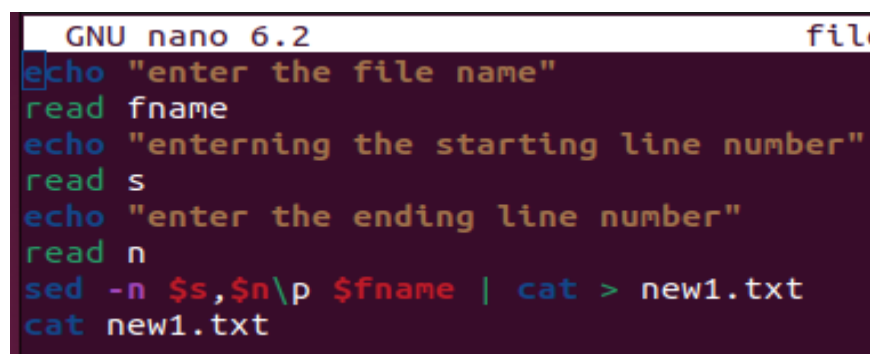
(B) Write a shell script that displays all the lines between start and end line numbers passed as arguments.

Command: nano filename.sh

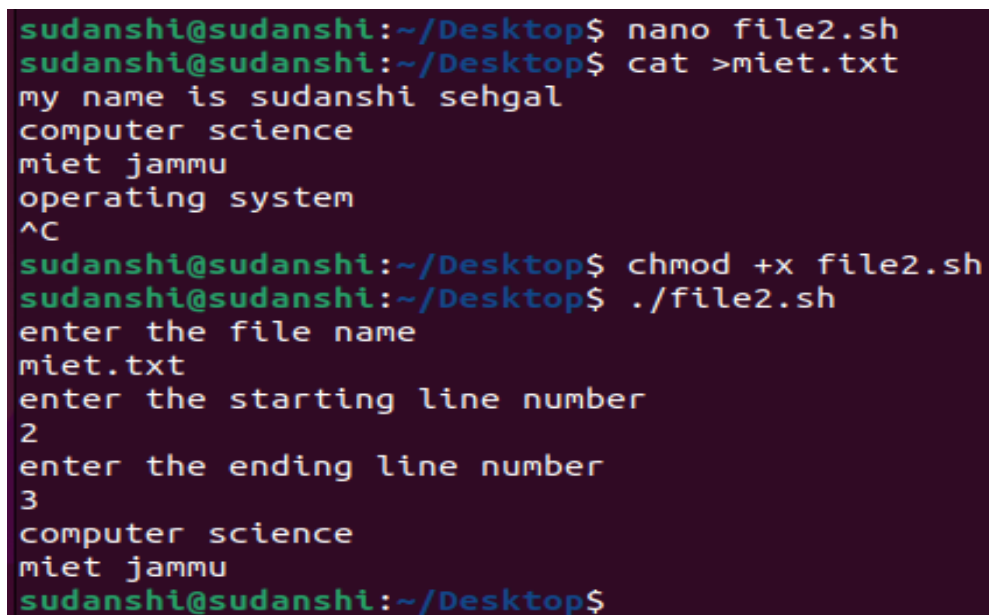
Script: echo "enter the filename:" Read
fname
echo "enter the starting line number:"
read s
echo "enter the ending line number:"
read n
sed -n \$s,\$n\p \$fname

Terminal: chmod +x filename

./nameofthefile.sh

A screenshot of a terminal window showing the GNU nano 6.2 editor. The script content is as follows:

```
GNU nano 6.2 filename.sh
echo "enter the file name"
read fname
echo "entering the starting line number"
read s
echo "enter the ending line number"
read n
sed -n $s,$n\p $fname | cat > new1.txt
cat new1.txt
```

A screenshot of a terminal window showing the execution of the script. The user creates a file named 'miet.txt' with the following content:

```
sudanshi@sudanshi:~/Desktop$ nano file2.sh
sudanshi@sudanshi:~/Desktop$ cat >miet.txt
my name is sudanshi sehgal
computer science
miet jammu
operating system
^C
sudanshi@sudanshi:~/Desktop$ chmod +x file2.sh
sudanshi@sudanshi:~/Desktop$ ./file2.sh
enter the file name
miet.txt
enter the starting line number
2
enter the ending line number
3
computer science
miet jammu
sudanshi@sudanshi:~/Desktop$
```

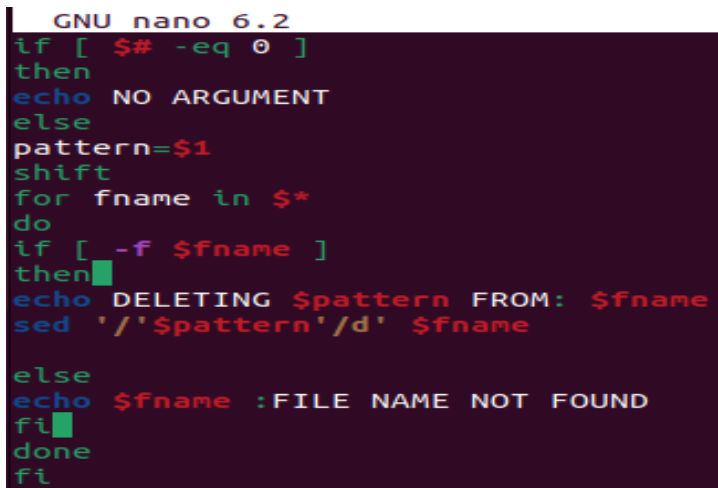
(C) Write a shell script that deletes all lines containing a specified word in one or more files supplied as arguments to it.

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



```
GNU nano 6.2
if [ $# -eq 0 ]
then
echo NO ARGUMENT
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
```

```
sudanshi@sudanshi:~/Desktop$ nano file3.sh
sudanshi@sudanshi:~/Desktop$ cat >miet.txt
my name is sudanshi sehgal
miet jammu
operating system
miet computer science
^C
sudanshi@sudanshi:~/Desktop$ chmod +x file3.sh
sudanshi@sudanshi:~/Desktop$ ./file3.sh
NO ARGUMENT
sudanshi@sudanshi:~/Desktop$ ./file3.sh miet miet.txt
DELETING miet FROM: miet.txt
my name is sudanshi sehgal
operating system
sudanshi@sudanshi:~/Desktop$
```

