Name: Meet Brijwani

Roll no: 14

Batch: S11

EXPERIMENT NO : 01

Aim: Explore usage of basic linux commands and system calls for files, directory and process management.

Theory:

1. who : it is used to find out the current user who is logged into the system.
2. pwd : present working directory, lets you know the current directory you are in.
3. cal : show the calendar of the complete month.
4. date : It shows you the current date, along with the time, along with the day, along with the year.
5. mkdir: to create a new directory under any directory
6. chdir/cd : to change the current working directory
7. cat : to create the file and display the contents of the file
8. chmod: to change the mode of the file. There are three modes read(r), write(w) and execute(e)
9. ls : to list all directories and subdirectories

a. ls-l : to show the long listing information about the directory
b. ls-lh : human readable format.
c. ls-ld : shows the details of the directory content.
d. ls-d* : to show the sub directories in a directory
e. ls-a : to show hidden files
f. ls-lhs : show files in the descending order in which you have used your files.

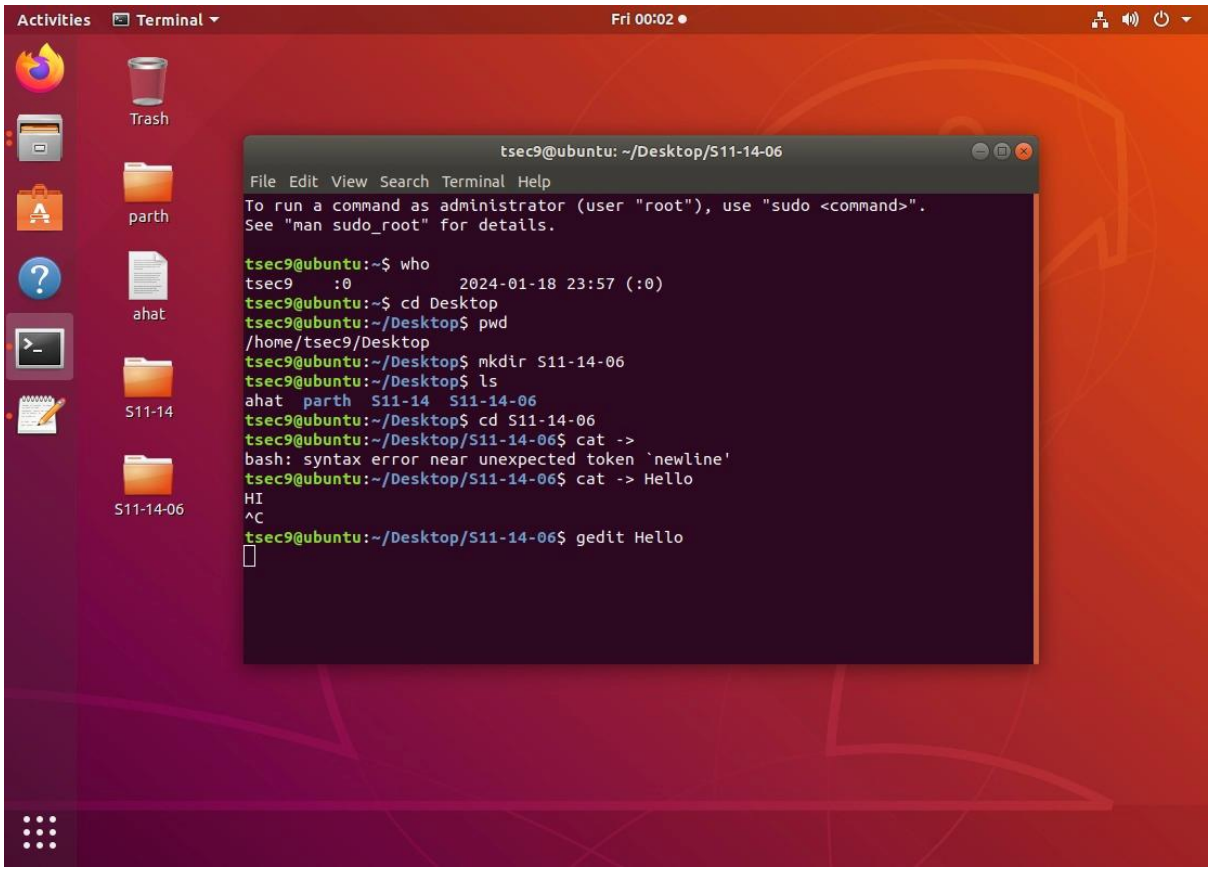
10. sort-r file name.txt : sorts the list in reverse order
11. sort-n file name.txt : its sorts the numerical list in ascending order
12. sort nr file name.txt : its sorts the numerical list in reverse order
13. sort u file name.txt : to remove the duplicates
14. sort m file name.txt : Sorts the months in ascending order
15. awk : it is used for the user that defines text patterns that are to be searched for each line of the file.

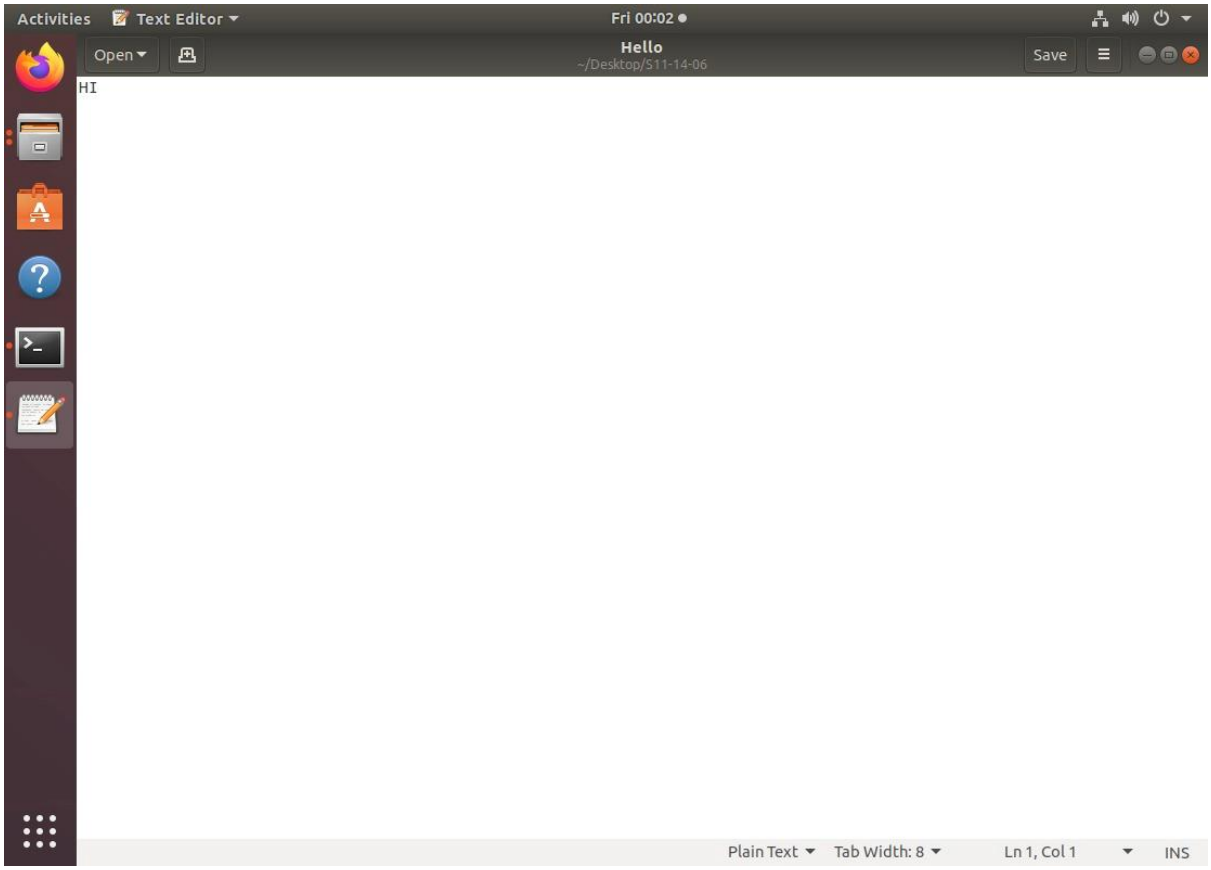
    Syntax , awk '{print}' file name.txt

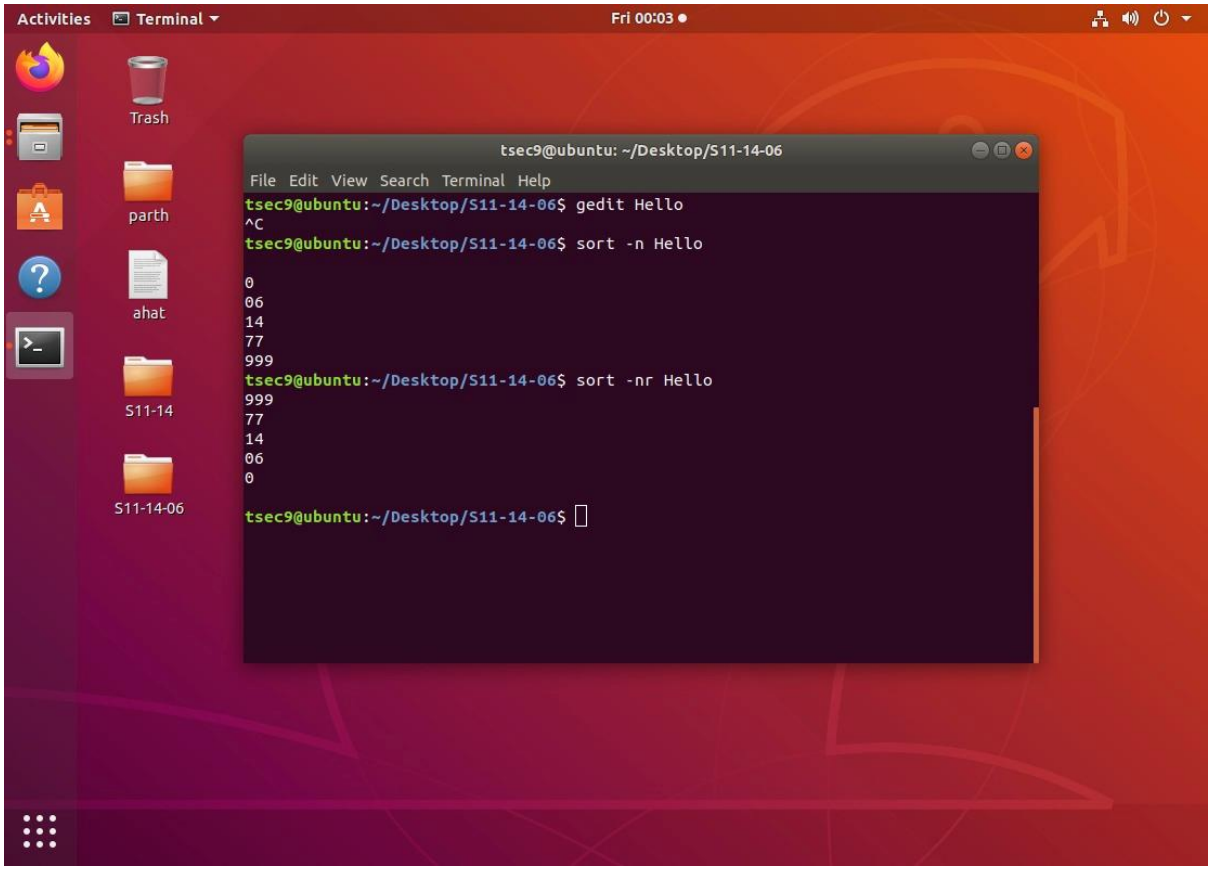
    awk '/faculty/{print}' file name.txt :

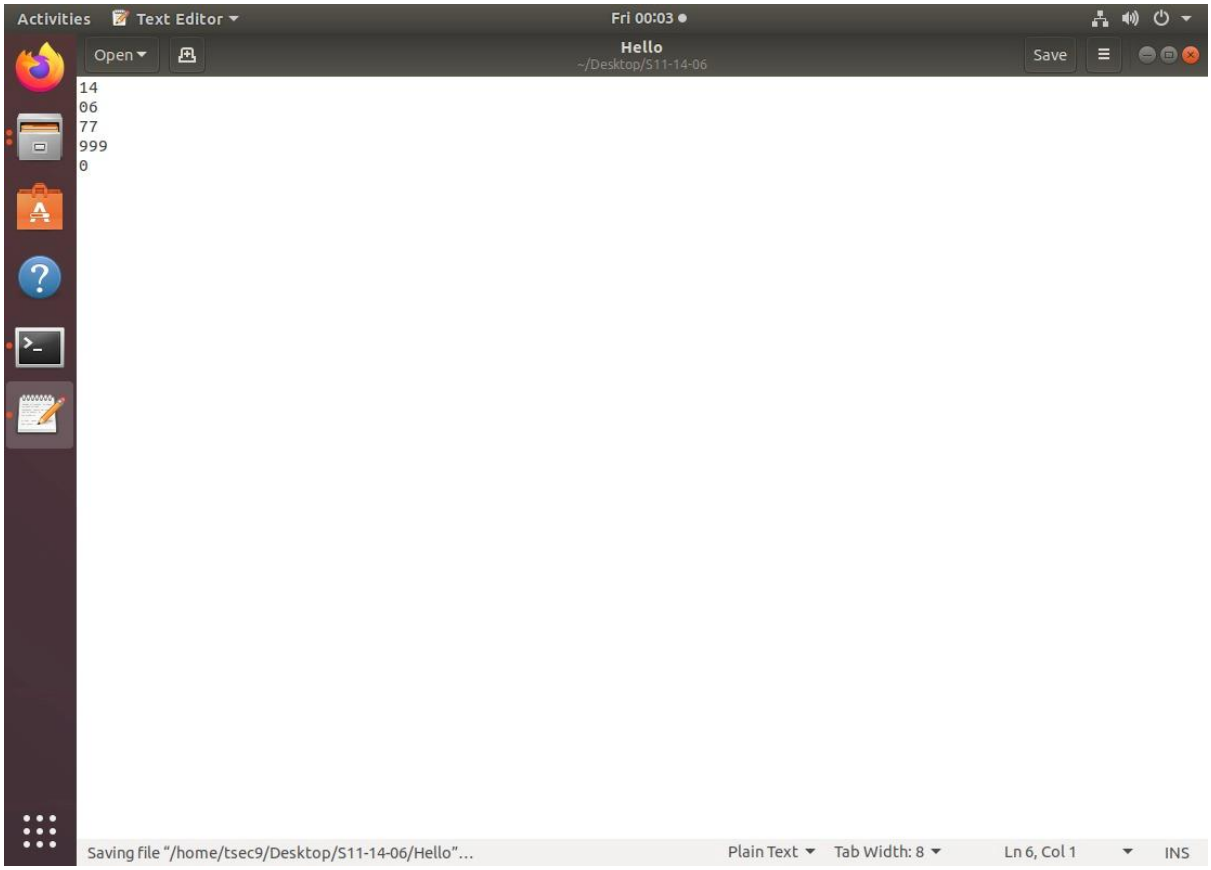
awk '{print}NR, $0}' file name.txt :
NR - specifies the number of lines.

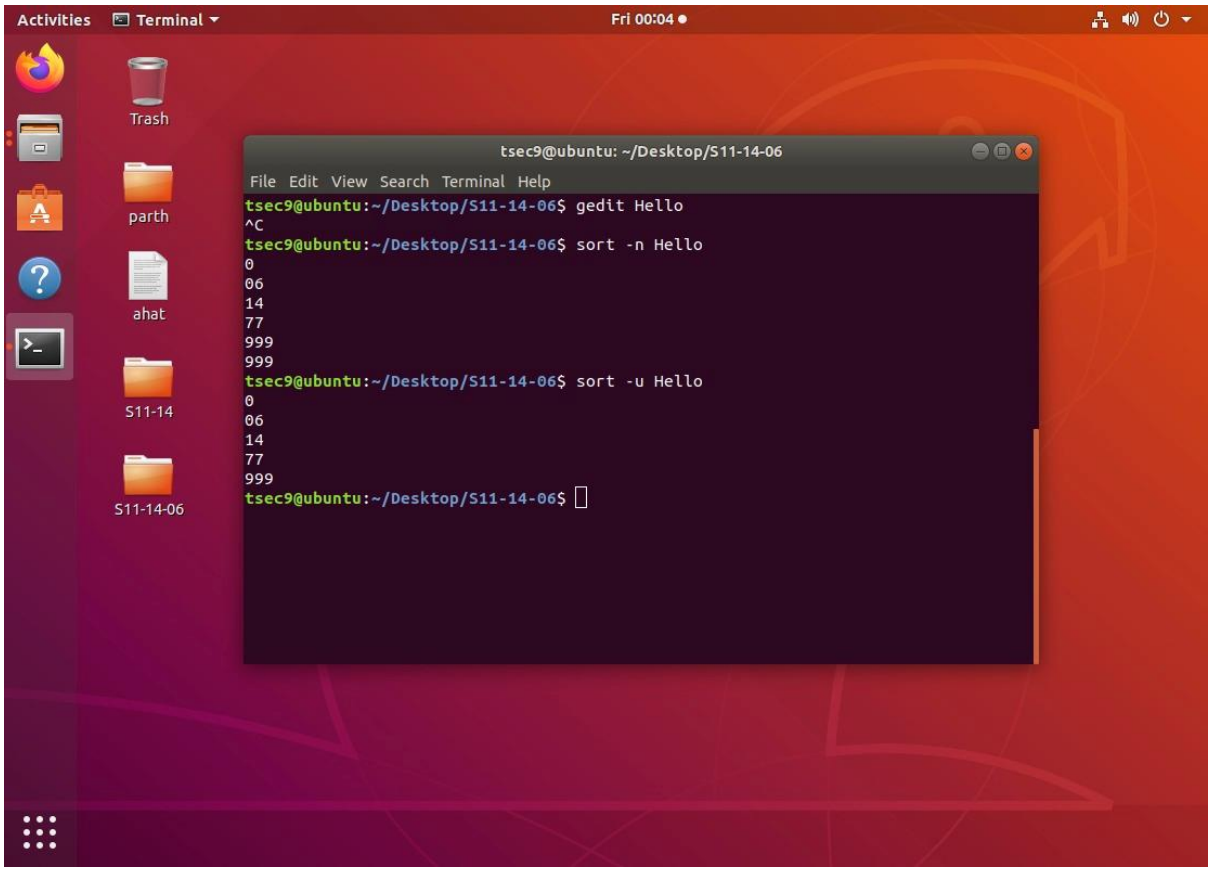
Output :

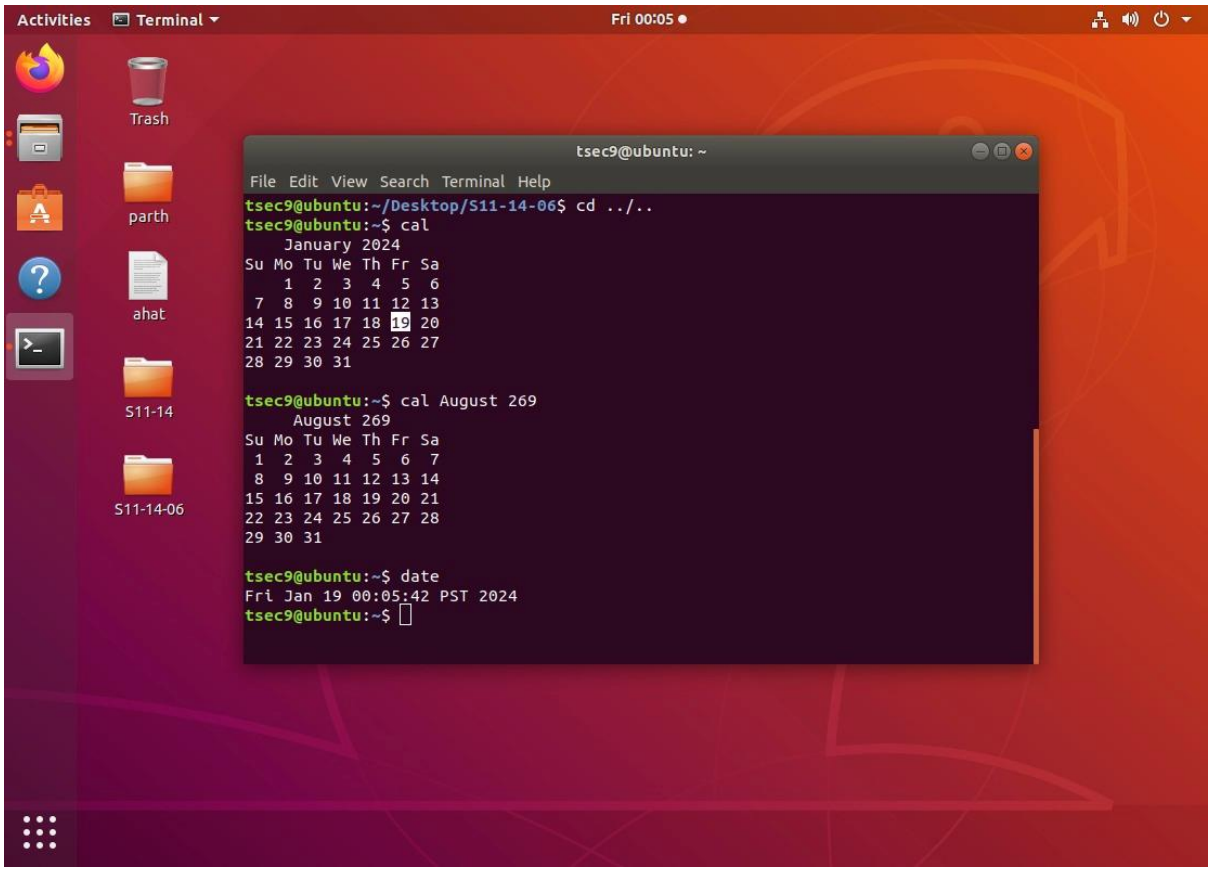


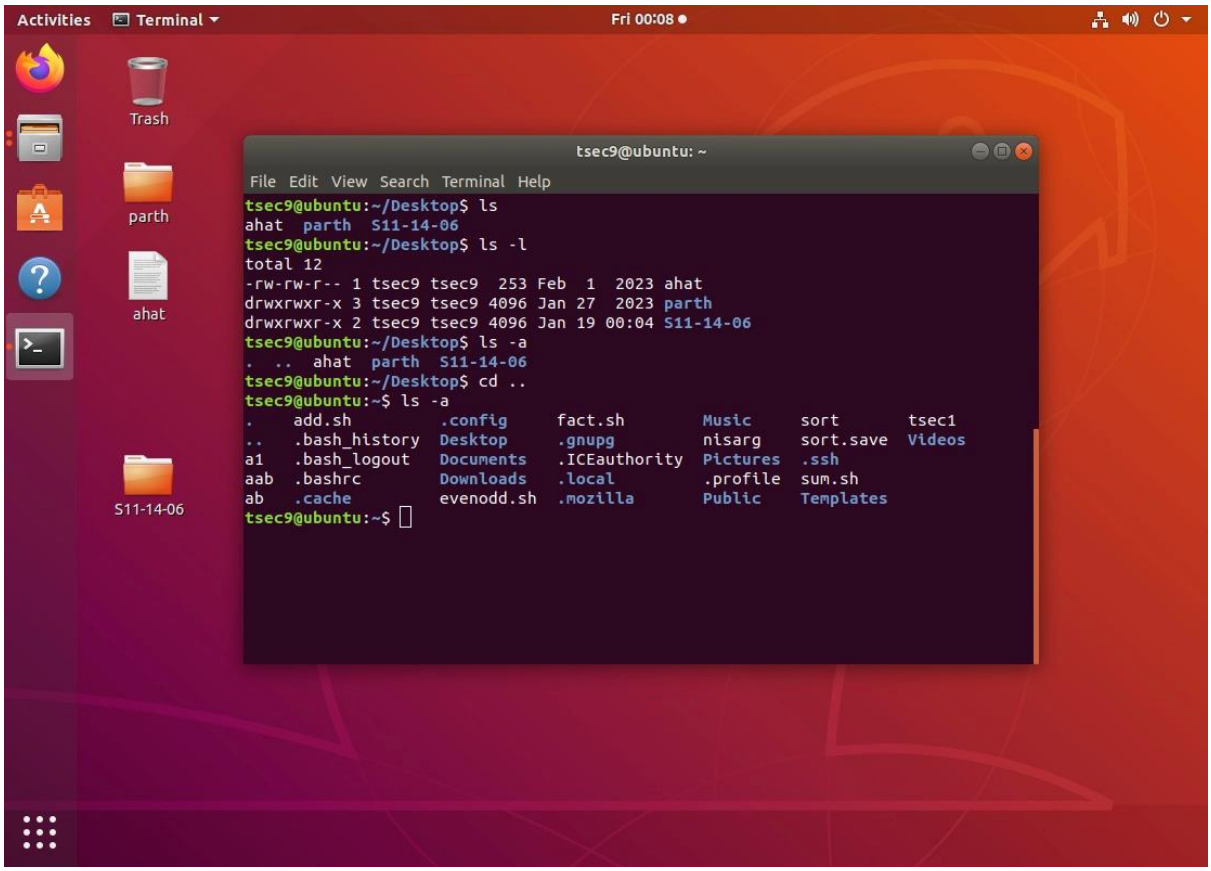

Activities
Text Editor
Fri 00:02
Open
Hello
~/Desktop/S11-14-06
Save
HI
Plain Text
Tab Width: 8
Ln 1, Col 1
INS


Activities
Terminal
Fri 00:03
Trash
parth
ahat
S11-14
S11-14-06
tsec9@ubuntu: ~/Desktop/S11-14-06
File Edit View Search Terminal Help
tsec9@ubuntu:~/Desktop/S11-14-06$ gedit Hello
^C
tsec9@ubuntu:~/Desktop/S11-14-06$ sort -n Hello
0
06
14
77
999
tsec9@ubuntu:~/Desktop/S11-14-06$ sort -nr Hello
999
77
14
06
0
tsec9@ubuntu:~/Desktop/S11-14-06$


Activities
Text Editor
Fri 00:03
Open
Hello
~/Desktop/S11-14-06
Save
14
06
77
999
0
Saving file "/home/tsec9/Desktop/S11-14-06/Hello"...
Plain Text
Tab Width: 8
Ln 6, Col 1
INS


Activities
Terminal
Fri 00:04
Trash
parth
ahat
S11-14
S11-14-06
tsec9@ubuntu: ~/Desktop/S11-14-06
File Edit View Search Terminal Help
tsec9@ubuntu:~/Desktop/S11-14-06$ gedit Hello
^C
tsec9@ubuntu:~/Desktop/S11-14-06$ sort -n Hello
0
06
14
77
999
999
tsec9@ubuntu:~/Desktop/S11-14-06$ sort -u Hello
0
06
14
77
999
tsec9@ubuntu:~/Desktop/S11-14-06$


Activities
Terminal
Fri 00:05
Trash
parth
ahat
S11-14
S11-14-06
tsec9@ubuntu: ~
File Edit View Search Terminal Help
tsec9@ubuntu:~/Desktop/S11-14-06$ cd ../..
tsec9@ubuntu:~$ cal
January 2024
Su Mo Tu We Th Fr Sa
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31
tsec9@ubuntu:~$ cal August 269
August 269
Su Mo Tu We Th Fr Sa
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31
tsec9@ubuntu:~$ date
Fri Jan 19 00:05:42 PST 2024
tsec9@ubuntu:~$


Activities
Terminal
Fri 00:08
Trash
parth
ahat
S11-14-06
tsec9@ubuntu: ~
File Edit View Search Terminal Help
tsec9@ubuntu:~/Desktop$ ls
ahat parth S11-14-06
tsec9@ubuntu:~/Desktop$ ls -l
total 12
-rw-rw-r-- 1 tsec9 tsec9 253 Feb 1 2023 ahat
drwxrwxr-x 3 tsec9 tsec9 4096 Jan 27 2023 parth
drwxrwxr-x 2 tsec9 tsec9 4096 Jan 19 00:04 S11-14-06
tsec9@ubuntu:~/Desktop$ ls -a
. .. ahat parth S11-14-06
tsec9@ubuntu:~/Desktop$ cd ..
tsec9@ubuntu:~$ ls -a
. add.sh .config fact.sh Music sort tsec1
.. .bash_history Desktop .gnupg nisarg sort.save Videos
a1 .bash_logout Documents .ICEauthority Pictures .ssh
aab .bashrc Downloads .local .profile sum.sh
ab .cache evenodd.sh .mozilla Public Templates
tsec9@ubuntu:~$