

File Handling commands = pwd, ls, cp, mv, cd, touch, vi, rm, rmdir, chmod

Text handling commands = head, tail, sort, wc, grep

wc==> to count lines, characters and words of in the textfile

Redirection of IO

Pipes

Redirection >, >>

- = overwrite the destination content
- >> = append to the destination content

Where does the default output of command go ??? CONSOLE
Let us pass the default output to a file

Ask the user to enter roll number first name lastname marks
For a few users - REDIRECT that input to a file student_data
If the user enters q then stop asking the user.

Practice EX

Ask the user to enter number lines to be shown from top
Also enter the file name
Show the lines from that file

```
unix@prachi:~$ wc ./student_data
5 20 94 ./student_data
unix@prachi:~$ wc -c ./student_data
94 ./student_data
unix@prachi:~$ wc -w ./student_data
20 ./student_data
unix@prachi:~$ wc -l ./student_data
5 ./student_data
```

Practice Ex

Write a shell script

Show a menu to the user

1. Show in asc order of firstname
2. Show in desc order of firstname
3. Show in asc of lastname
4. Show in desc of lastnae
5. Show in asc of roll numbers

6. Show in desc of marks
7. Quit

PIPE == output of one process is sent as input to another process

| = pipe symbol

In linux each command is a process

Command | cmd2 | cmd3 | cmd4

Redirection --- output of the command goes to a file

Pipe ----output of the command goes to another command

Show the line in student_data that gives info about the topper only !!!!

sort -r -n -k 4 ./student_data | head -1

-r for reverse...decreasing order

-k stands for column and next int stands for number of column on which sorting needs to be done

Show the first 2 toppers info !!!

sort -r -n -k 4 ./student_data | head -2

Show the info of the 3rd and 4th topper !!!

sort -r -n -k 4 ./student_data | head -4 | tail -2

Sort in asc order of file size

ls -l | sort -k 5 -n

Grep command is used for searching a search string in a file or files

grep "ra" ./student_data

unix@prachi:~\$ grep "^8" ./student_data

88 sonali mohite 89

unix@prachi:~\$ grep "8" ./student_data

12 prachi godbole 88

88 sonali mohite 89

15 rajeev sane 80

45 akash rana 78

unix@prachi:~\$ grep "8\$" ./student_data

12 prachi godbole 88

45 akash rana 78

grep "echo" ./shell_Scripts/if1.sh | wc -l

Number of blank lines in all the .sh files

```
unix@prachi:~$ grep "^$" ./shell_Scripts/*.sh | wc -l  
59
```

Removing blank lines from a file

```
grep -v "^$" ./shell_Scripts/second.sh >> ./temp.sh  
Cp temp.sh to second.sh
```

Practice Example

1. Accept a string from user and show it in reverse
 2. Accept a string from user and tell whether it is a palindrome
 3. Accept a string from user and insert your name in between
Hello
Helprachilo
-

