30-9-2021

Grep Command

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* • The grep filter searches a file for a particular pattern of characters, and displays all the that contain that pattern.

option Description.

(1) -c : This used to print the no. of line which contain particula pattern.

(2) -i : Its ignore, case of matching

grep -i 'LiNUX' filename
give output highlight all the line where Linux LINUX Linux becoz -i not case sensitive.

(3) -n : It display matched lines and there number
grep -n 'text' filename.

(4) -V : It display all the line that do not matche the pattern.

grep -v 'text' filename

(5) -w : When you want to matched whole word

grep -w 'patten' filename

⑥ grep -l 'pattern' file

[It display only file name]

Ex grep -i -w 'data' file1

give all the line o/p which have full whole word 'data'.

⑦* grep '^a' file ,

give line of file which have 'a' as a staring Symbol.

⑧* grep -An : print the n line after patter matched

Ex grep -A 4 "word" file1

⑨ grep Bn: print the n line before pattern matched

grep B5 'word' file2

⑩ grep Cn: print n' line before and after patter matched.

grep C4 'word' file2

⑪ grep 'data$' filename

'data' pattern end of the line

To search two different word in file

* grep -w 'word1|word2' /path/to/file

Head & tail command

head use for output of first part of the file while tail command will print the last part of the file.

1. head -n7 file

print first 7 line of file

3. head -c 3 file

It print all the data which is 3digit ka hai

4. head -n3 file1 file2

give first tree line both file

5. head -v file

O/P ==> text ==

~~tail~~ → [tail -n 3 file]

Tail command

(6) tail -n 3 file

give last 3 line of file data

(7) tail -n 3 file1 file2

give output of 3 last line from both file

tail -f timestamp.log

Head tail together

[Particular portion print करने के लिए]

(8) tail -n +2 file | head -n3

file data

1
2
3
4
5
6

This give the output of start with 2 line and upto 4 line

o/p → 2
3
4

More command

(1) more file
[whole text appeared at once

(2) more -d file
It display 25% of data of file
Press 'space' to continue
'q' for quit.

(3) more -f filename
more -c filename

(4) more -p filename
(Clear the screen then display the text)

(5) more +30 file
Display the text after 30 lines

for read cat file | more.

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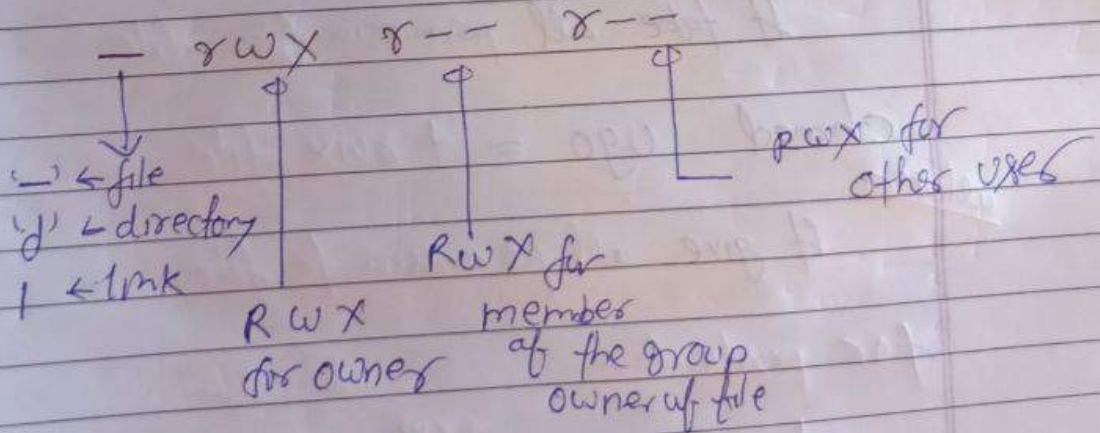
chmod

If change the file/directory permission by command

u ← user
g ← group user
o ← other user
a ← all.
0 — No
1 — X (execute)
2 — W (write)
4 — R (read)
777 — all permission.

\+ ← add permission
\- ← revoke
= ← specif permission

a ←



* give all permissn to all files / directory

(1) chmod 777 *

(2) give permissn to particular file

chmod 777 filename

(or)

* chmod a=rwx file

[all permissn]

(3) revoke or add

chmod ugo = -rwx file

If take all permissn from file

chmod ugo = +rwx file.

delete

If give all permissn to file.

for particular

chmod [u] [g] [o] = -rw filename

+rw

If help to revoke add permissn for particular user.

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COMMANDS

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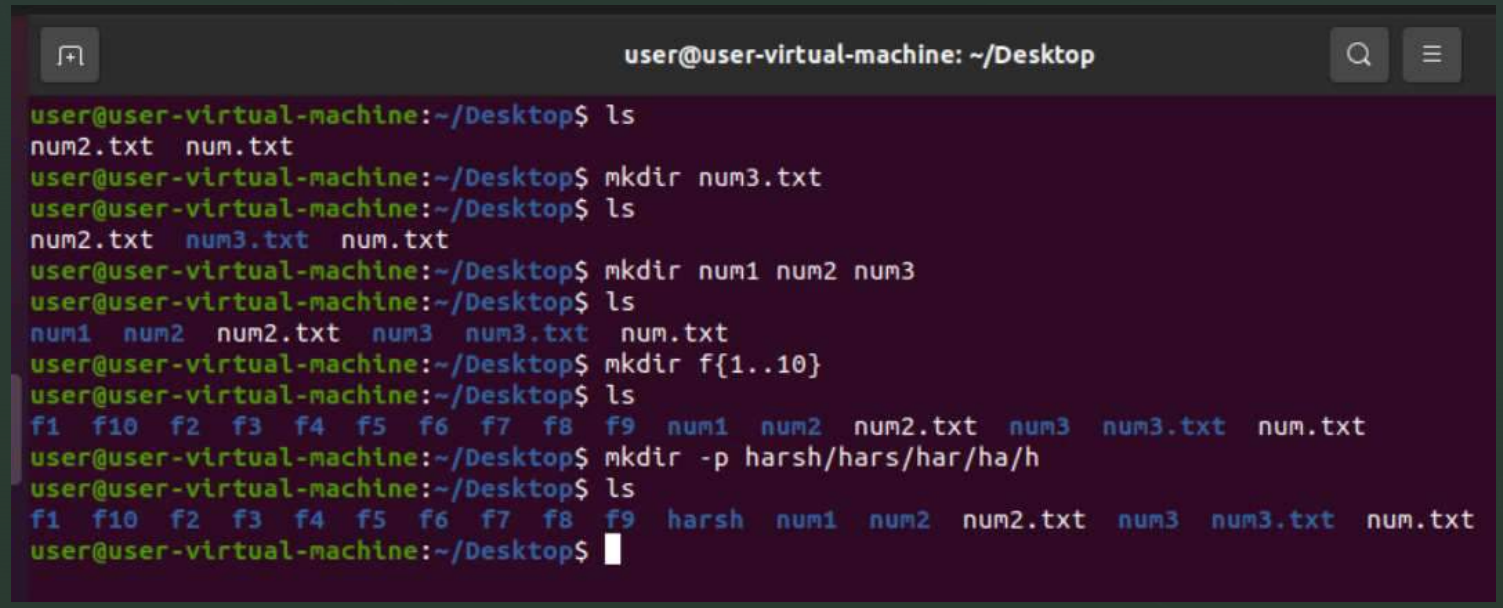
1. **mkdir:**

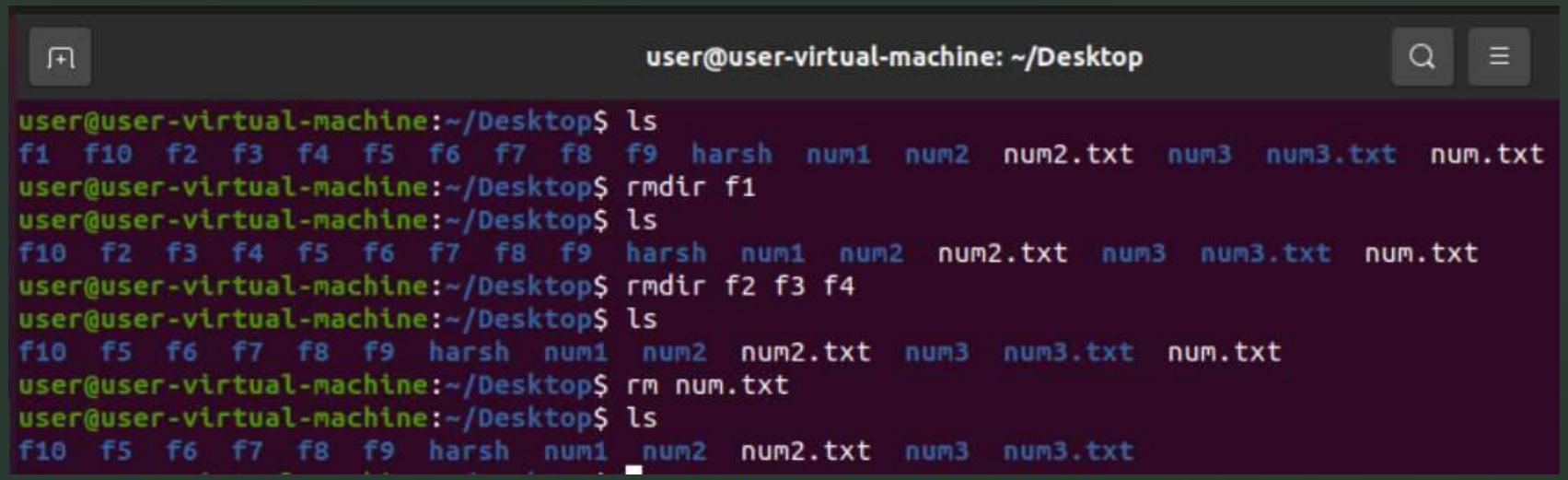
   Command used for creating directory.

   - *For creating multiple folders → mkdir foldername1 foldername2 foldername3*
   - *For creating 10 or more folders → mkdir foldername{1..10}*
   - *For creating folder and subfolders → mkdir –p 'f1/f2/f3'*



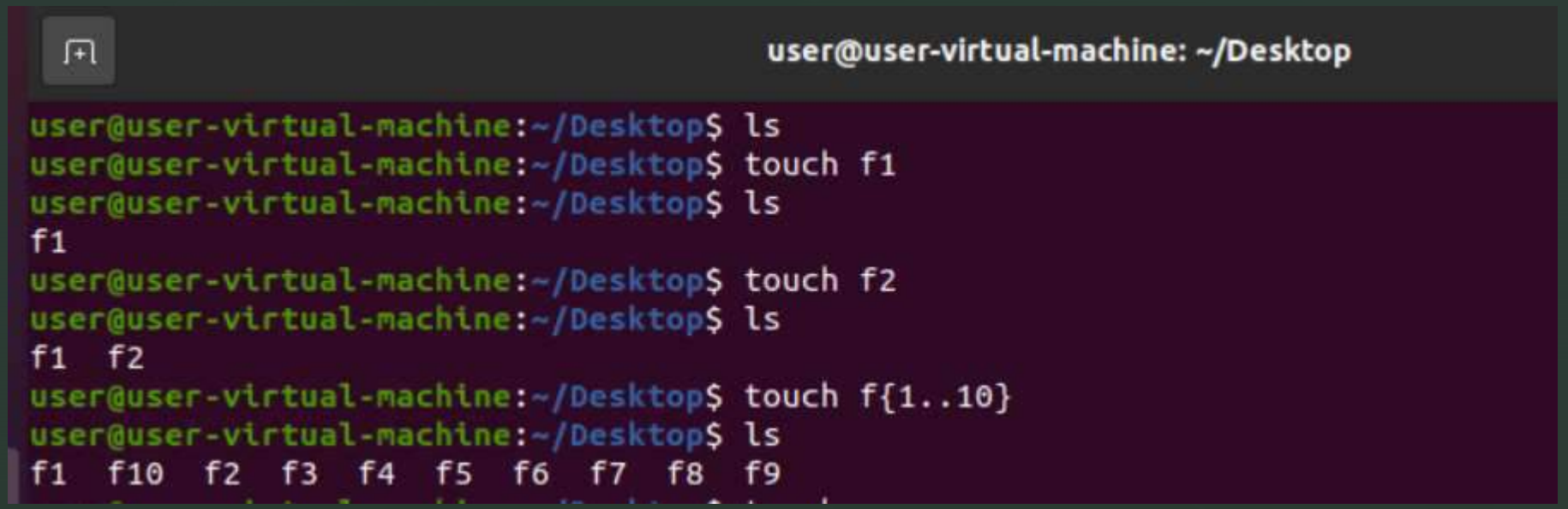
2. **rmdir and rm**

- *rmdir →Used for removing directory only,can delete only empty files.*
- *rmdir –rf →Used for deleting non-empty files forcefully.*
- *rm →Used for removing files.*
- *rm –i →Will delete file but,ask if Y(Yes) or N(No) for file deletion.*
- *rm* →deletes all file*



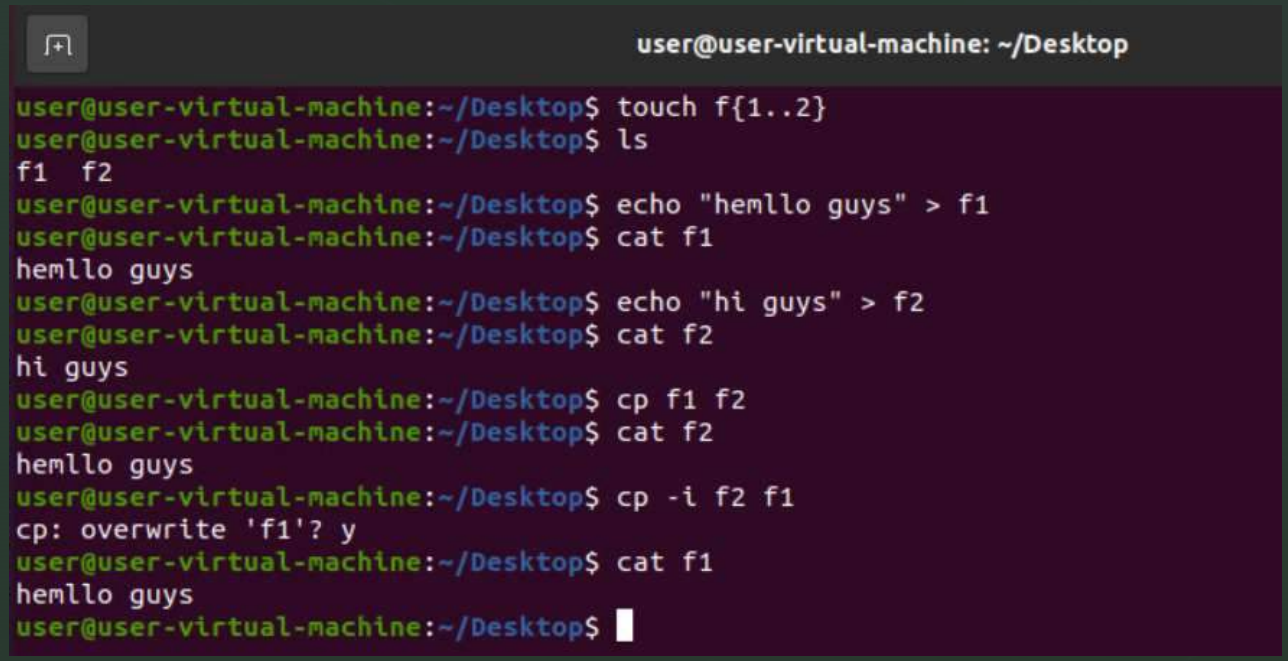
3. **touch**

- *Creates empty file can create one or more than one file at a time.*



4. ***cp***

- *Command used for copying data from one location(source) to other(destination).*
- *Overwrites the data in destination folder if data present before.*
- *Syntax: cp file1 file2*
- *cp –i file1 file2 → asks before overwriting Y or N*



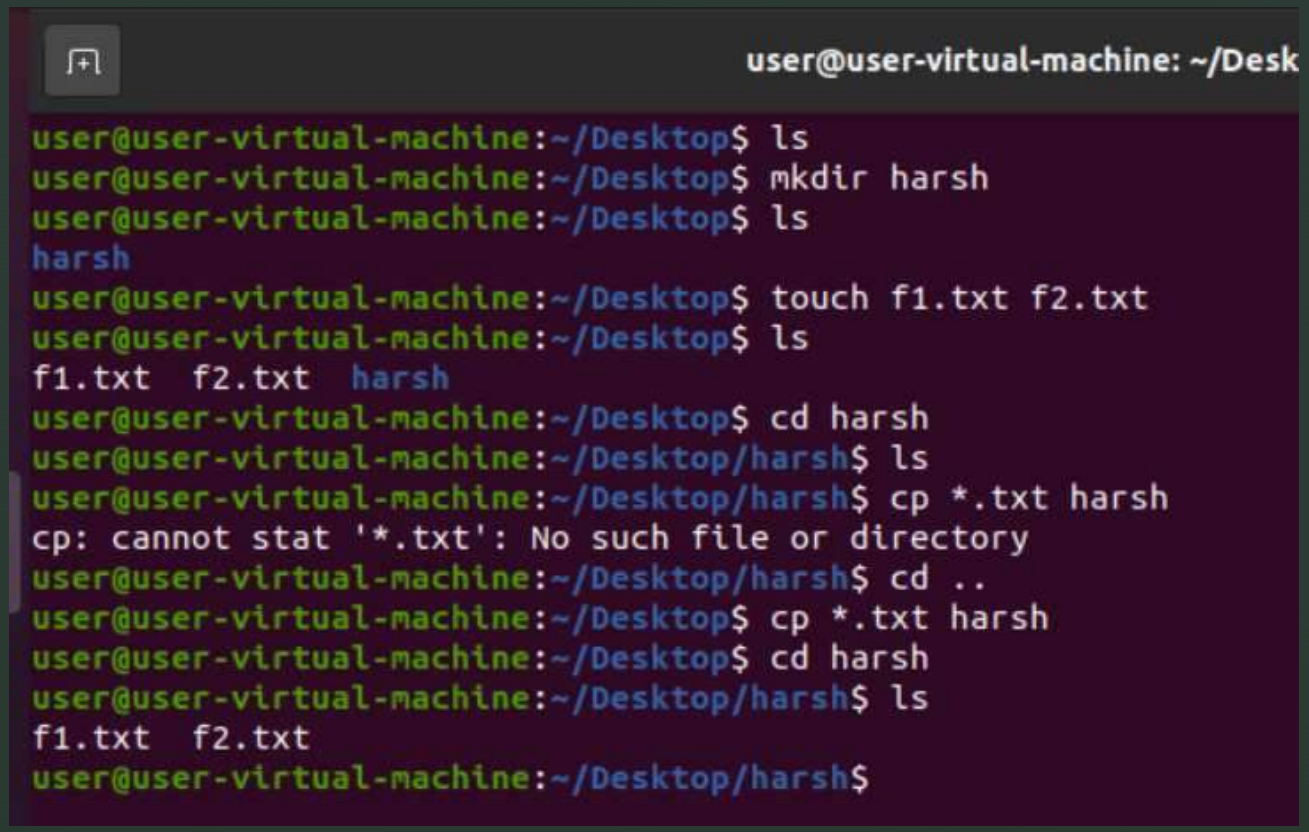
- *cp file1 file2 > file3 → Used for copying content from different files to desired file location.*

```
user@user-virtual-machine:~/Desktop$ touch f{1..3}
user@user-virtual-machine:~/Desktop$ ls
f1  f2  f3
user@user-virtual-machine:~/Desktop$ echo "hemllo" > f1
user@user-virtual-machine:~/Desktop$ echo "guys" > f2
user@user-virtual-machine:~/Desktop$ cat f1 f2 > f3
user@user-virtual-machine:~/Desktop$ cat f3
hemllo
guys
user@user-virtual-machine:~/Desktop$
```

- *cp file1 file2 directory →Copies file1 file2 data into desired directories.*

```
user@user-virtua
user@user-virtual-machine:~/Desktop$ mkdir harsh
user@user-virtual-machine:~/Desktop$ cd harsh
user@user-virtual-machine:~/Desktop/harsh$ cd ..
user@user-virtual-machine:~/Desktop$ cp f1 f2 harsh
user@user-virtual-machine:~/Desktop$ cd harsh
user@user-virtual-machine:~/Desktop/harsh$ ls
f1  f2
user@user-virtual-machine:~/Desktop/harsh$ cd ..
user@user-virtual-machine:~/Desktop$ ls
f1  f2  harsh
user@user-virtual-machine:~/Desktop$
```

- cp * .extension →It will remove all file having that particular extension from the location. Eg: cp * .txt It will remove all text file.

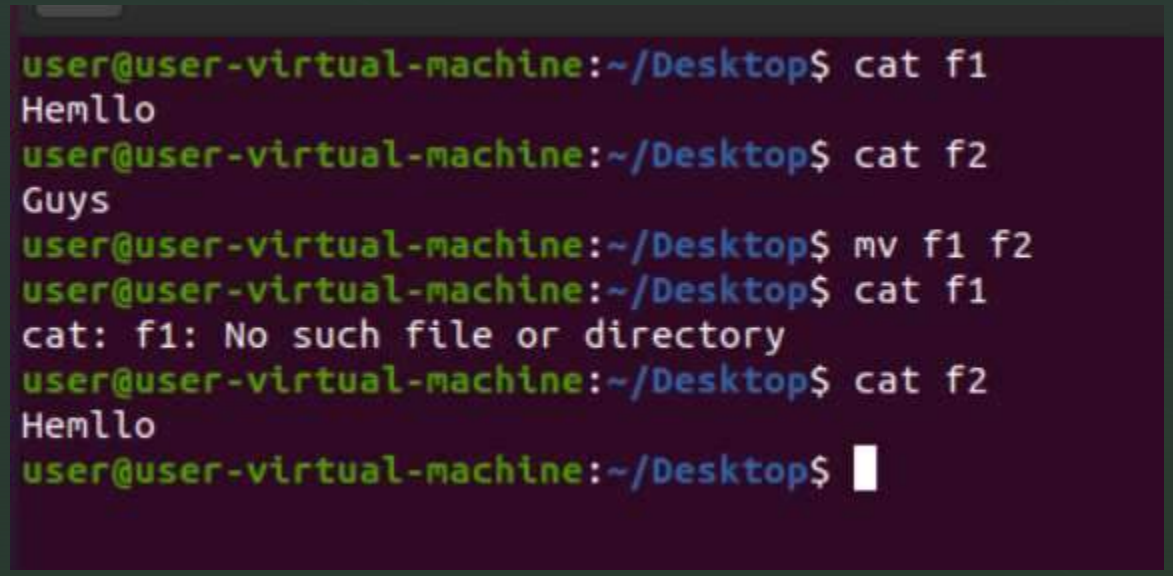


- *cp –b file1 file2→Copies data from file1 to file 2 but just a small difference between normal copy and this,that it makes a backup of the file which is about to be overwritten or the destination file,It is denoted by ~filename.*

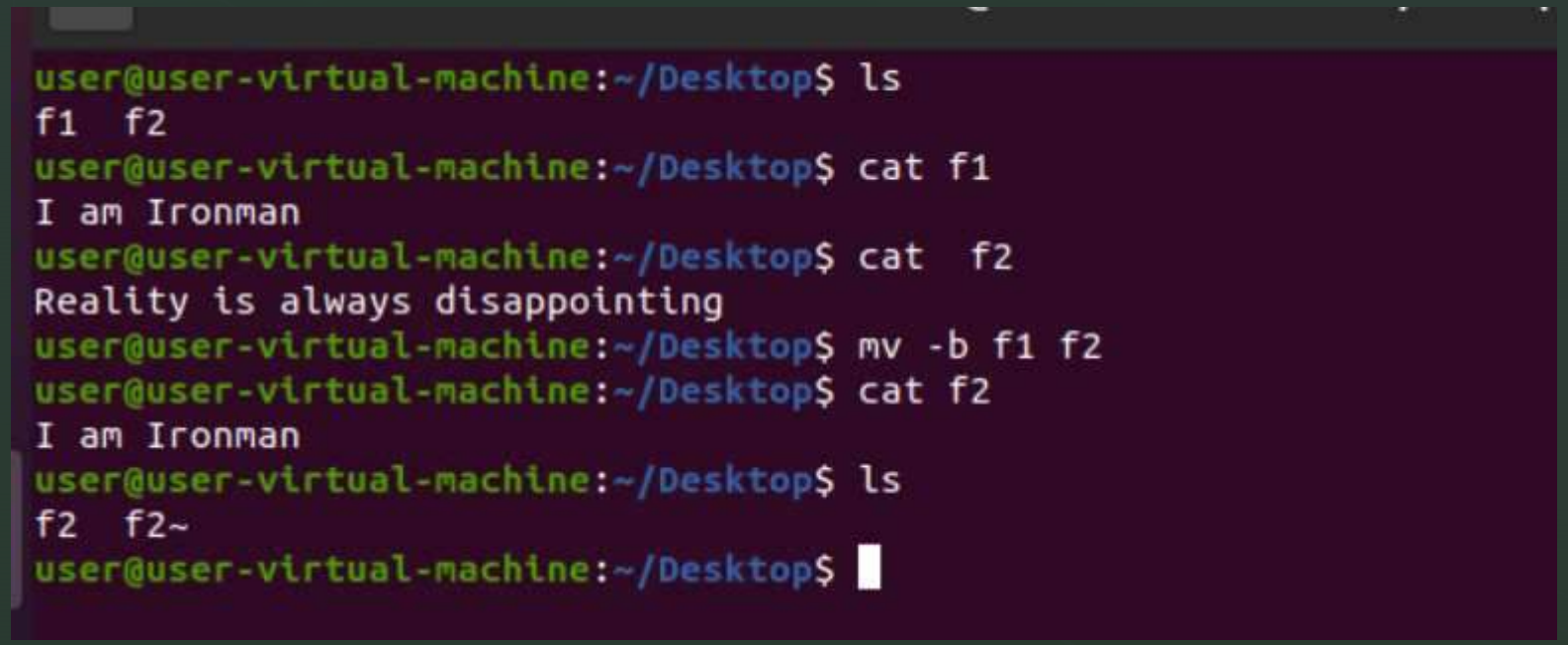
5. **mv**

To relocate an existing file or directory from one location to another, use the mv command in Linux. It can also be used to change the name of a file or directory. The'mv' option is ideal to use if you only want to rename a single directory or file.

It moves data from one file to other thus deleting the source file and it can be illustrated by the below example.



- *mv –b file1 file2 →Move data from one file to another and having the backup of which file is about to be overwritten.*
- *It is denoted by ~filename.*

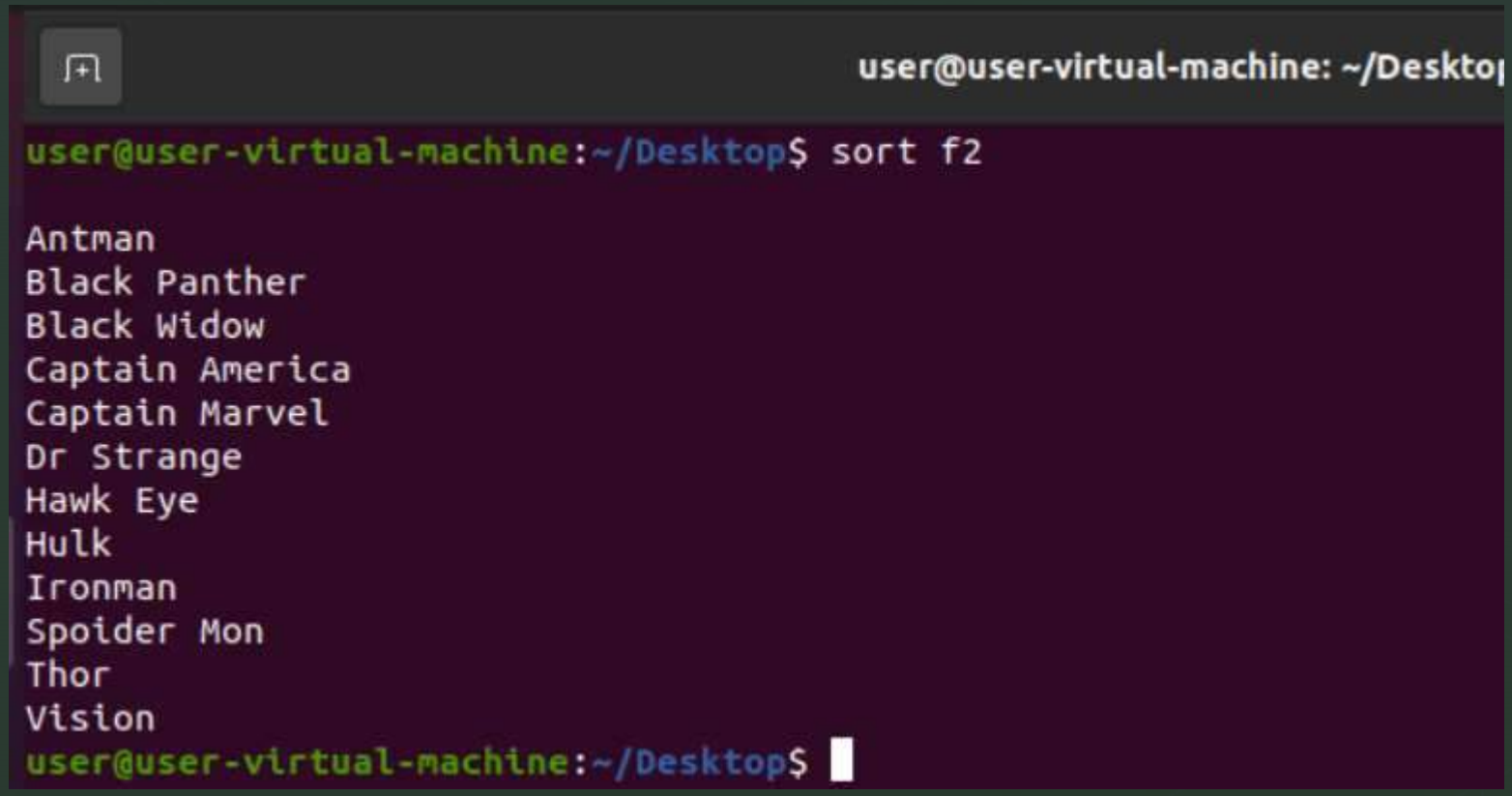


- **mv using path location**
- *mv “source path/filename” “destination path”*

```
user@user-virtual-machine:~/Desktop$ mv "h1/h2/f1.txt" "h3/h4"
user@user-virtual-machine:~/Desktop$ cd h3
user@user-virtual-machine:~/Desktop/h3$ cd h4
user@user-virtual-machine:~/Desktop/h3/h4$ ls
f1.txt
```

6. Sort :

- *Sort data according to dictionary order.*
- *Syntax: sort filename*



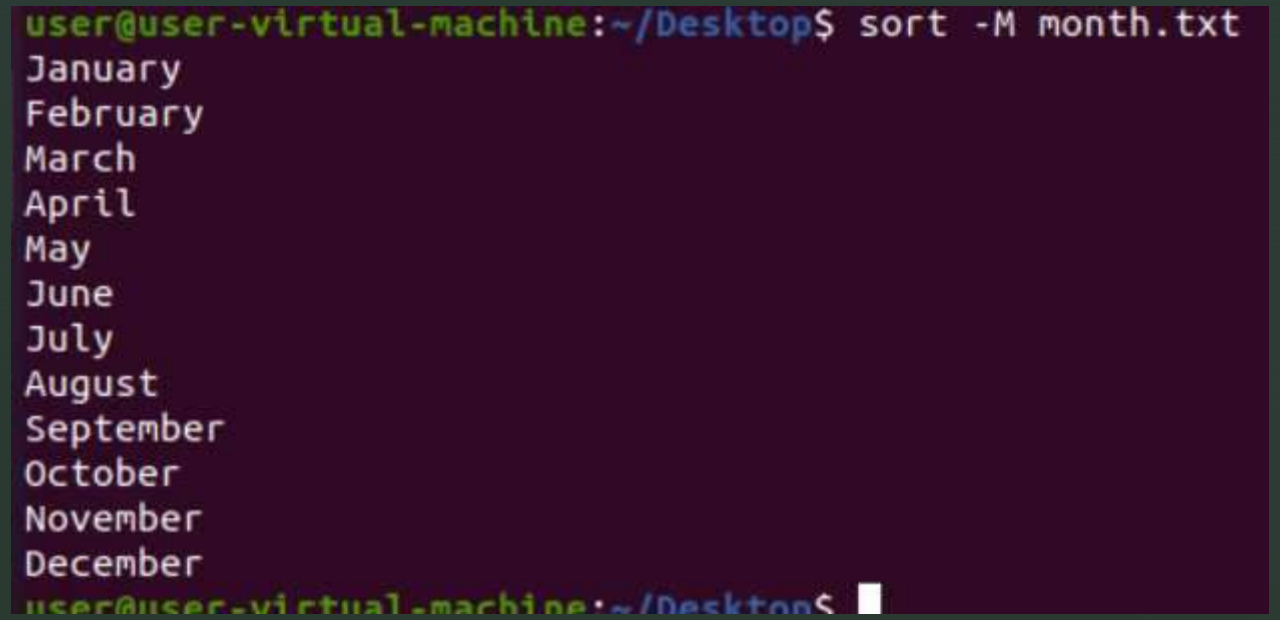
Sort according to numeric order:

Syntax → sort –n filename

Syntax for reverse numeric order →sort –nr filename

```
user@user-virtual-machine:~/Desktop$ sort -n num.txt
2
4
24
34
38
199
user@user-virtual-machine:~/Desktop$ sort -nr num.txt
199
38
34
24
4
2
```

- *Sorting for months given in a file.*
- *Syntax → sort –M filename*

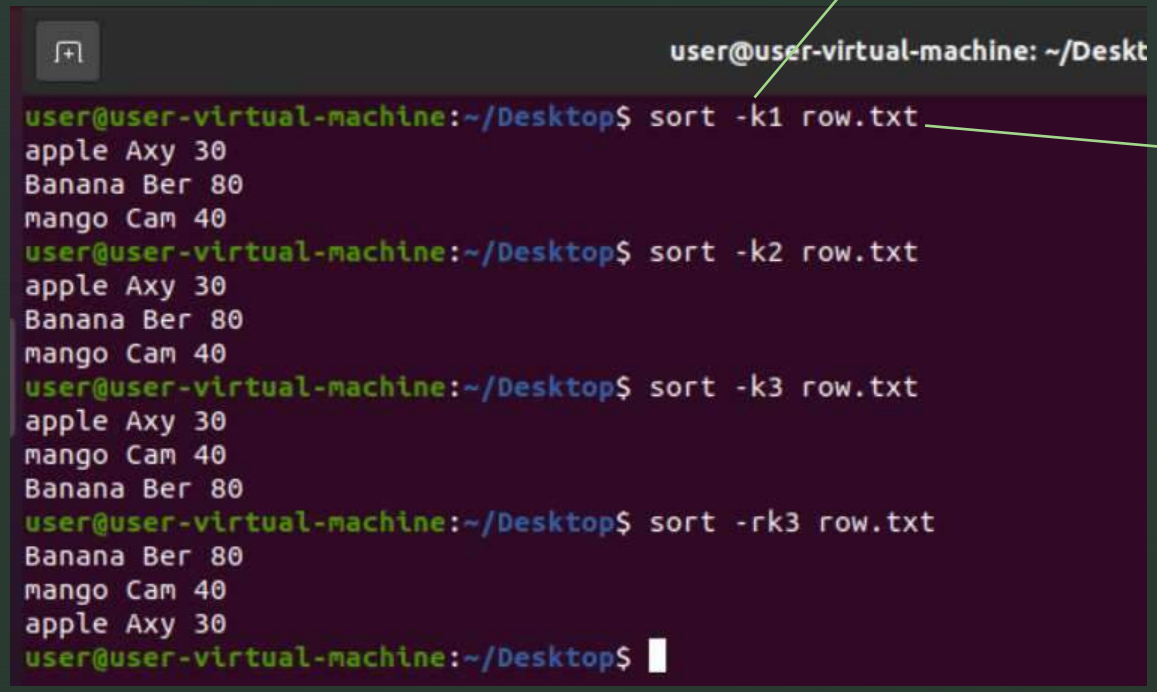


- *Note:- If there is any data present in the month file which is not a month will be placed initially at the beginning of sorted month data.*

- *Sorting according to column.*
- *Syntax → sort –kColumnNo Filename*

-k with column no

Filename



7. **passwd**

Command used for changing password.

Syntax → passwd

8. **gedit**

- *Command used for opening any file*
- *Command used for creating new file*
- *Syntax →gedit filename*