# **Symbiosis Skills and Professional University**



Name: Yograj Anant Gadekar Date: 04/10/2021

PRN:

School: School of Data Science

Course: Data Associate (Data Science) DA13

Module Name: Python for Data Analysis / Managing with Data / Analyzing Data from Disparate

Sources (tick any one)

1. Skill Activity Number: 07

2. Title: Linux Admin Commands

3. Skills / Competencies to be acquired : VMware

4. Duration: 1 day.

#### 5. What is the purpose of the activity?

Purpose is to understand the basic commands of linux to perform operations

# 6. Steps Performed in this activity?

Follow step by step commands to performed this activity

7. What resources / materials / equipment / tools did you use for this activity? VMware, MS word

#### 8. What skills did you acquire?

Creation of many files, directories, copy, move, cat etc. so many commands we can learn in this activity.

9. Time taken to complete this activity?

1Hrs

# **Linux Admin Commands**

**1) pwd-** (Present working directory) command writes the full pathname of the current working directory

Syntax: pwd

2) Is – Is command is used to list files or listing the content

Syntax: Is

3) touch- used to create a fileSyntax: touch filename

4) mkdir- This command is used to create new directory

Syntax: mkdir foldername

5) cat- cat command is used to read the file

Syntax: cat filename

```
CentOS Linux 7 (Core)
Kernel 3.18.8-957.el7.x86_64 on an x86_64

localhost login: root
Password:

Last login: Sat Oct 23 84:14:29 on tty1
[root8]ocalhost "l# # pwd - present working directory
[root8]ocalhost "l# pwd - present working directory
[root8]ocalhost "l# pwd - present working directory
[root8]ocalhost "l# ls- listing the content
[root8]ocalhost "l# ls anacomda-ks.cfg
[root8]ocalhost "l# touch - create a file
[root8]ocalhost "l# touch demo.txt
[root8]ocalhost "l# ls
anacomda-ks.cfg demo.txt
[root8]ocalhost "l# # mkdir- used to create new directory
[root8]ocalhost "l# # mkdir new_dir
[root8]ocalhost "l# is anacomda-ks.cfg demo.txt new_dir
[root8]ocalhost "l# is cat less used to read the file
[root8]ocalhost "l# cat demo.txt
[root8]ocalhost "l# cat demo.txt
```

**6) man-** command is used to display user manual of any command that we can run on the terminal

Syntax: man command name

```
Is - list directory contents

SYMOPSIS
Is (OPTION)... (FILE)...

DESCRIPTION
List information about the FILEs (the current directory by default). Sort entries alphabetically if none of -cftwSMX nor --sort is specified.

Fandatory arguments to long options are mandatory for short options too.

-a, --all
do not ignore entries starting with .

-A, --almost-all
do not list implied . and ..

--author
with -1, print the author of each file

-b, --escape
print C-style escapes for nongraphic characters

--block-size-8122
scale sizes by SIZE before printing them; e.g., '--block-size-M' prints sizes in units of 1.848.576 bytes: see SIZE format below

-B, --ignore-backups
do not list implied entries ending with "

-c with -1t: sort by, and show, ctime (time of last modification of file status information); with -1: show ctime and sort by name; otherwise: sort by ctime, newest first
[root@localhost "]# man - is used to display user manual of any command that we can run on the terminal [root@localhost "]#
```

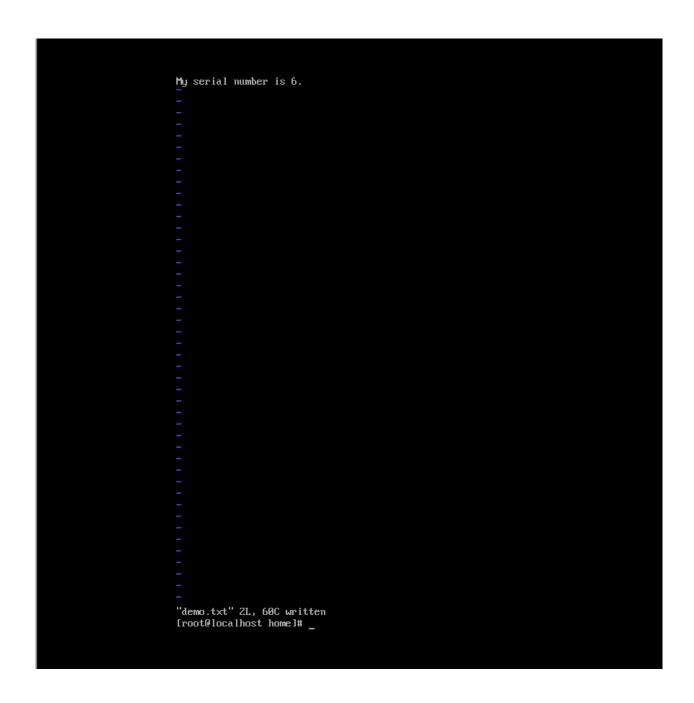
7) touch- used to create a new file

Syntax: touch filename

8) vi – Used to edit the existing file or create a new file from scratch.

Syntax: vi filename

```
[root@localhost home]# # touch- used to create a file
[root@localhost home]# touch demo.txt
[root@localhost home]# ls
demo.txt
[root@localhost home]# # vi - used to edit the existing file or create a new file from scratch
[root@localhost home]# vi demo.txt
```



**Insert mode –** This mode enables you to insert text into file To come in insert mode you simply type **i**.

Escape mode-(Last line)- Line mode invoked by typing a colon(:)

After that type wq ( w- is used for save the file and q- is used for quit)

9) cat- used to read the fileSyntax: cat demo.txt

```
"intro.txt" 9L, 161C written

[root@localhost ~]# # cat - is used to read the file

[root@localhost ~]# cat intro.txt

Hello, Good Moring, This is Group 5

Members are:-

Mayuri Gaikwad

Nikhil Rajgude

Swapnil Kanade

Yograj Gadekar

Our Project Topic is:- PUBG Game Data Analytics

[root@localhost ~]# _
```

10) mkdir- create new folder Syntax: mkdir new\_dir

**11) cd –** change the directory

Syntax: cd

**12) cd.. –** used to move to the parent directory of current directory

Syntax: cd..

```
Iroot@localhost home]#
Iroot@localhost home]# mkdir - command is ised to create new folder or directory
Iroot@localhost home]# mkdir new_dir
Iroot@localhost home]# mkdir new_dir
Iroot@localhost home]# cd - used to change the directory
Iroot@localhost home]# cd new_dir/
Iroot@localhost home]# cd new_dir/
Iroot@localhost new_dir]# ls
Iroot@localhost new_dir]# pwd
/home-new_dir
Iroot@localhost new_dir]# rd .. - this command used to move to the parent directory of current directory
Iroot@localhost new_dir]# cd ..
```

13) du - This command is used to move to the parent directory of current directory

#### Syntax: du filename

```
[root@localhost new_dir]# pwd
/root/new_dir
[root@localhost new_dir]# cd ..
[root@localhost ~]# ls
anaconda-ks.cfg intro.txt new_dir
[root@localhost ~]# du intro.txt
4 intro.txt
[root@localhost ~]#
```

**14) rmdir-** This command is used to remove the directory.(it remove only empty direcorty)

Syntax: rmdir foldername

15) rm - command is used to remove the file

Syntax: rm filename

**16) rm -r** -To remove non-empty directories and all the files within them recursively, use the -r (recursive) option.

Syntax: rm -r dirname

**17) rm -rf** -Without asking for your consent, removes files for which you do not have write access permission.

Syntax: rm - rf dirname

```
[root@localhost ~]# mkdir dir_1
[root@localhost ~]# ls
anaconda-ks.cfg dir_1 intro.txt new_dir
[root@localhost ~]# mkdir dir_2
[root@localhost ~]# mkdir group5
[root@localhost ~]# mkdir group5
[root@localhost ~]# ls
anaconda-ks.cfg dir_1 dir_2 group5 intro.txt new_dir
[root@localhost ~]# touch demo.txt
[root@localhost ~]# touch group5.txt
[root@localhost ~]# ls
anaconda-ks.cfg demo.txt dir_1 dir_2 group5 group5.txt intro.txt new_dir
[root@localhost ~]# rmdir dir_1
[root@localhost ~]# ls
anaconda-ks.cfg demo.txt dir_2 group5 group5.txt intro.txt new_dir
[root@localhost ~]# m demo.txt
rm: remove regular empty file 'demo.txt'? y
[root@localhost ~]# ls
anaconda-ks.cfg dir_2 group5 group5.txt intro.txt new_dir
[root@localhost ~]# ls
anaconda-ks.cfg dir_2 group5 group5.txt intro.txt new_dir
[root@localhost ~]# ls
```

**18) cp command –** cp stands for **copy** This command is used to copy a file or directory into existing or to some other directory as given in the path, and it can also rename a copied file(that is the new one)

Syntax: cp <existing file name> <new file name>

**19)** mv – mv command is used to move existing file or directory from one location to another. It is also used to rename a file or directory. If you want to rename a single directory or file then 'mv' option will be better to use.

Syntax: mv [Option] source destination

Example: mv week.txt /home/week1.txt

**20) head command-** The 'head' command displays the starting content of a file. By default, it displays starting 10 lines of any file.

#### Syntax: head <file name>

```
[root@localhost ~1# cat data.txt
Hello This is Group 5 from DA13 batch
Today is 09-Dec-2021 (Wed)
We learn new things in this class like:-
Big Data
Hadoop
Hive
HQL
MYSQL
Tableau
PYSPARK
PYTHON
SQOOP
0
p
f
our project work is doing for completing. Iroot@localhost ~1# head data.txt
Hello This is Group 5 from DA13 batch
Today is 09-Dec-2021 (Wed)
We learn new things in this class like:-
Big Data
Hadoop
Hive
HQL
MYSQL
Tableau
[root@localhost ~1#
```

## Head command for multiple files

If we'll write two file names then it will display first ten lines (in this case file has five lines only) of each file separated by a heading.

Syntax: head <file name> <file name>

**21) head – n** option displays specified number of lines.

Syntax: head -n <file name>

**22) head – c** command counts the number of bytes of a file.

Syntax: head -c <number> <file name>

```
[root@localhost ~1# head data.txt
Hello This is Group 5 from DA13 batch
Today is 09-Dec-2021 (Wed)
We learn new things in this class like:-
Big Data
Hadoop
Hive
HQL
MYSQL
Tableau
PYSPARK
[root@localhost ~1# head -3 data.txt
Hello This is Group 5 from DA13 batch
Today is 09-Dec-2021 (Wed)
We learn new things in this class like:-
[root@localhost ~1# head -c data.txt
head: data.txt: invalid number of bytes
[root@localhost ~1# head -c 20 data.txt
Hello This is Group [root@localhost ~]#
```

**23) tail-** tail command is used to display the last ten lines of one or more files. Its main purpose is to read the error message. By default, it displays the last ten lines of a file.

Syntax: tail <file name>

23) tail -n option displays the specified number of lines.

Syntax: tail -n <number> <file name>

Example: tail -n 5 data.txt

**24) tail -c** option displays the specified number of bytes from the last.

Syntax: tail -c <number> <file name>

Example: tail -c 6 data.txt

```
[root@localhost ~]# tail data.txt

r
o
u
p
f
i
v
e
our project work is doing for completing.
[root@localhost ~]# tail -5 data.txt
i
v
e
our project work is doing for completing.
[root@localhost ~]# tail -5 data.txt
i
v
e
```

25) cat- command is used to read files & concatenate or combine multiple files together.

Syntax: cat filename Example: cat data.txt

cat is also used to join multiple files into one single file using ">"

Syntax: cat file1.txt file2.txt file3.txt > file-all.txt

cat command is used to create new file with below syntax.

Syntax: cat > new\_file.txt

cat -n used to number all output lines of a file including empty lines.

cat -n filename.txt

**cat -b** used to display the number of each non-empty line cat -b filename

**26) tac-** The 'tac' command is the reverse of the 'cat' command. It is also known as 'cat' backward. It will display the file content in reverse order. It prints the last line first, then second last and so on. Such way, it prints the first line at last.

Syntax- tac <file name>

```
Iroot@localhost ~ ]# ls
anaconda-ks.cfg data.txt dir_2 group5 group5.txt intro.txt new_dir
Iroot@localhost ~ ]# cat data.txt group5.txt intro.txt > f_all.txt
Iroot@localhost ~ ]# cat f_all.txt
Hello This is Group 5 from DA13 batch
Today is 09-Dec-2021 (Wed)
We learn new things in this class like:-
Hadoop
Hive
HQL
MYSQL
Tableau
PYSPARK
PYTHON
SQOOP
p
f
our project work is doing for completing.
Hello, Good Moring, This is Group 5
Members are:-
Mayuri Gaikwad
Nikhil Rajgude
Swapnil Kanade
Yograj Gadekar
Our Project Topic is:- PUBG Game Data Analytics
[root@localhost ~]# _
```

## cat data.txt

```
[root@localhost ~]# cat data.txt
Hello This is Group 5 from DA13 batch
Today is 09-Dec-2021 (Wed)
We learn new things in this class like:-
Big Data
Hadoop
Hive
HQL
MYSQL
Tableau
PYSPARK
PYTHON
SQOOP
g
r
o
u
p
f
i
i
v
e
our project work is doing for completing.
[root@localhost ~]#
```

#### tac data.txt

```
Croot@localhost ~1# tac data.txt
our project work is doing for completing.

e

v
i
f
p
u
o
r
g
SQOOP
PYTHON
PYSPARK
Tableau
MYSQL
HQL
Hive
Hadoop
Big Data
We learn new things in this class like:-
Today is 69-Dec-2821 (Wed)
Hello This is Group 5 from DA13 batch
Croot@localhost ~1# __
```

27) more- Similar to cat command also displays the content of a file.

Only difference is that, in case of larger files, 'cat' command output will scroll off your screen while 'more' command displays output one screenful at a time.

Syntax: more <file name>

28) less- The 'less' command is same as 'more' command but include some more features.

It automatically adjust with the width and height of the teminal window, while 'more' command cuts the content as the width of the terminal window get shorter.

Syntax: less <file name>

```
Iroot@localhost ~1# less data.txt
Hello This is Group 5 from DA13 batch
Today is 09-Dec-2021 (Wed)
We learn new things in this class like:-
Big Data
Hadoop
Hive
HQL
MYSQL
Tableau
PYSPARK
PYTHON
SQOOP
g
r
o
u
p
f
i
i
v
e
our project work is doing for completing.

lata.txt (END)
```

29) su- The su command allows you to run a shell as another user.

Syntax: su <username>

30) useradd- Used to add or remove a user on a linux server

Syntax: useradd username

31) passwd- A user can set the password with the command passwd

Syntax: passwd

```
[root@localhost ~]# cd /home/
[root@localhost home]# ls
intro1.txt
[root@localhost home]# useradd yograj
[root@localhost home]# passwd yograj
Changing password for user yograj.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@localhost home]# su yograj
[yograj@localhost home]$
```

**32) groupadd-** The groupadd command creates or add a group in our system.

Syntax: groupadd <groupName>

**33) sort -** The 'sort' command sorts the file content in an alphabetical order.

Syntax: sort <fileName>
Example: sort data.txt

```
[root@localhost ~1# groupadd hadoop
[root@localhost ~1# sort data.txt]

Big Data
e
f
g
Hadoop
Hello This is Group 5 from DA13 batch
Hive
HQL
i
MYSQL
O
our project work is doing for completing.
p
PYSPARK
PYTHON
r
SQOOP
Tableau
Today is 09-Dec-2021 (Wed)
u
V
We learn new things in this class like:-
[root@localhost ~1#
```

# sort -r option for sorting in reverse order

#### **sort -nr** option for numeric data in reverse order

```
Iroot@localhost ~1# sort -mr data.txt
We learn new things in this class like:-

v
u
Today is 89-Dec-2021 (Wed)
Tableau
SQOOP
r
PYTHON
PYSPARK
p
our project work is doing for completing.

o
MYSQL
i
HQL
Hive
Hello This is Group 5 from DA13 batch
Hadoop
g
f
e
Big Data

[root@localhost ~1# ______
```

## **sort -u** option to sort & remove duplicates

sort -k option to find particular column

sort -m option for sort month name in month ascending order

34) cut – used to cutting out the section from specified files Syntax: cut OPTION... [FILE]..

Example: cut -d " " -f 2 da13.txt

cut -d It is used to cut a specific section by a delimiter.

**cut -f** It is used to select the specific fields.

```
Iroot@localhost ~1# cut -d " " -f 2 da13.txt

are

all

are

{we

Iroot@localhost ~1# cat da13.txt

wa are learnt Hadoop and linux commands

wa all are sincere students

wa are attending class on time

wa {we we are} working in groups.

Iroot@localhost ~1# _
```

**35) grep-** The 'grep' command stands for **"global regular expression print"**. grep command filters the content of a file which makes our search easy.

Syntax: grep <searchword>
Example: grep "Hello" demo.txt

**grep -i** The 'grep -i' command filters output in a case-insensitive way.

grep -c -grep -C command is used to display the line after and line before the result.

grep -I find similar kind of names

grep -w checking for the whole word in the file

```
c
[root@localhost ~]# grep "Hello" data.txt
Hello
[root@localhost ~]# grep "Thank you" data.txt
Thank you.
[root@localhost ~]# grep -i "hello" data.txt
Hello
[root@localhost ~]# grep -i -c "h" data.txt
8
[root@localhost ~]# grep -l "Hello" *
grep: ash.dir: Is a directory
grep: ash.u: Is a directory
data.txt
demo.txt
grep: my_dir: Is a directory
grep: new_dir: Is a directory
[root@localhost ~]# grep -w "am" data.txt
I am learning linux commands
[root@localhost ~]# ___
```

**36) comm -** The 'comm' command compares two files.

By default, 'comm' will always display three columns.

First column indicates non-matching items of first file, second column indicates non-matching items of second file, and third column indicates matching items of both the files.

Both the files has to be in sorted order for 'comm' command to be executed.

Syntax: comm <file1> <file2>

Example: comm name.txt name1.txt

```
[root@localhost ~1# cat name.txt
Gayatri
neĥa
rutu ja
vipul
yograj
[root@localhost ~l# cat name1.txt
Ashwini
Dipu
Ganesh
mayuri
yashalika
yograj
[root@localhost ~]# comm name.txt name1.txt
                  Ashwini
         Dipu
         Ganesh
Gayatri
                  mayur i
neha
rutu.ja
vipuĪ
        yashalika
yograj
[root@localhost ~1# _
```

# To display single column

#### Syntax:

comm -23 (To display first column)

comm -13 (To display second column)

comm -12 (To display third column)

```
Iroot@localhost ~l# comm -2 name.txt name1.txt
Ashwini
Gayatri
mayuri
neha
rutuja
vipul
yograj
Iroot@localhost ~l# comm -23 name.txt name1.txt
Gayatri
neha
rutuja
vipul
Iroot@localhost ~l# comm -13 name.txt name1.txt
Dipu
Ganesh
yashalika
Iroot@localhost ~l# comm -12 name.txt name1.txt
Ashwini
mayuri
yograj
Iroot@localhost ~l# comm -12 name.txt name1.txt
```

**37) sed -** sed command stands for stream editor. It is used to edit files using regular expressions. But this editing is not permanent. It remains only in display, but in actual, file content remains the same.

Syntax: sed [OPTION]... {script-only-if-no-other-script} [input-file]...

Example: sed "s/we/ew/" da13.txt
Sed "s/we/WE/" da13.txt

Sed "s.we/WE/2" da13.txt

#### Sed -i for caseinsensitive

- ${f g}$  used to global replacement
- -n used to display only replaced line
- -p for print
- **d** used for deleting
- .bak (for backup)
- -i.bak

```
Iroot@localhost "I# sed "s/we/WE/" da13.txt
WE are learnt Hadoop and linux commands
WE all are sincere students
WE are attending class on time
WE we we are working in groups.
Iroot@localhost "I# sed "s/we/ew/" da13.txt
ew are learnt Hadoop and linux commands
ew all are sincere students
ew are attending class on time
ew we we are working in groups.
Iroot@localhost "I# sed "s/we/WE/Z" da13.txt
we are learnt Hadoop and linux commands
we all are sincere students
we are attending class on time
we WE we are working in groups.
Iroot@localhost "I# sed "s/we/WE/Z" da13.txt
WE are learnt Hadoop and linux commands
WE will be are working in groups.
Iroot@localhost "I# sed "s/we/WE/Z" da13.txt
WE are learnt Hadoop and linux commands
WE all are sincere students
WE we we working in groups.
Iroot@localhost "I# sed "s/we/WE/Z" da13.txt
we are learnt Hadoop and linux commands
we all are sincere students
we are attending class on time
we WE WE are working in groups.
Iroot@localhost "I# sed "s/we/WE/Zg" da13.txt
we are learnt Hadoop and linux commands
we all are sincere students
we are attending class on time
we WE WE are working in groups.
Iroot@localhost "I#
```

sed "s/we/we all/" da13.txt (replacing a particular word) sed "s/we/we all/p" da13.txt (print the line) sed "4 s/we/we all/p" da13.txt (print 4<sup>th</sup> line) sed -n "4 s/we/we all/p" da13.txt (display only replaced line)

```
IrootPlocalhost "II sed "s/we/we all/" dai3.txt

we all are learnt Hadoop and linux commands

we all are attending class on time

we all use we are working in groups.

IrootPlocalhost "II sed "s/we/we all/p" dai3.txt

we all are learnt Hadoop and linux commands

we all are learnt Hadoop and linux commands

we all are learnt Hadoop and linux commands

we all all are sincere students

we all all are sincere students

we all all are actending class on time

we all are actending class on time

we all we we are working in groups.

IrootPlocalhost "II sed "4 s/we/we all/p" dai3.txt

we are learnt Hadoop and linux commands

we all are sincere students

we all are we are working in groups.

IrootPlocalhost "II sed "4 s/we/we all/p" dai3.txt

we are actending class on time

we all we we are working in groups.

IrootPlocalhost "II sed "4 s/we/we all/p" dai3.txt

we are learnt Hadoop and linux commands

we all we we are working in groups.

IrootPlocalhost "II sed "4 s/we/we all/p" dai3.txt

we are actending class on time

we all we we are working in groups.

IrootPlocalhost "II sed "1 sed "2 dai3.txt

we are actending class on time

we we we are working in groups.

IrootPlocalhost "II sed "1 bak "c/e/a" dai3.txt

IrootPlocalhost "III sed "1 bak "c/e/a" dai3.txt

IrootPlocalhost "III gat daid.txt

wa are learnt Hadoop and linux commands

wa all are sincere students

wa we we are working in groups.

IrootPlocalhost "III gat daid.txt

IrootPlocalhost "III gat daid.txt

wa we we we we we working in groups.

IrootPlocalhost "III gat daid.txt

IrootPlocalhost "III gat daid.txt

II gat daia txt

IrootPlocalhost "III gat daia.txt

IrootPlocalhost "III gat daia.txt

II gat daia txt

II gat daia.txt

II gat daia.txt

II gat daia.txt

II gat da
```

```
sed -i.bak "s/e/a/" da13.txt (replace e with a) sed -i.bak "1d" da13.txt (delete 1st line) sed -i.bak '$d' da13.txt (deleting last line)
```

```
Iroot@localhost "l# sed -i.bak "s/e/a/" da13.txt

Iroot@localhost "l# cat da13.txt

wa are learnt Hadoop and linux commands

wa all are sincere students

wa are attending class on time

wa we we are working in groups.

Iroot@localhost "l# sed -i.bak "ld" da13.txt

Iroot@localhost "l# cat da13.txt

wa all are sincere students

wa are attending class on time

wa we we are working in groups.

Iroot@localhost "l# cat da13.txt

wa all are sincere students

wa are attending class on time

wa we we are working in groups.

Iroot@localhost "l# sed 'j&d' da13.txt

wa all are sincere students

wa are attending class on time

Iroot@localhost "l# sed 'j&d' da13.txt

Iroot@localhost "l# sed 'j&d' da13.txt
```

**38) tee-** tee command is quite similar to the 'cat' command, with only one difference. It puts stdin on stdout and also put them into a file.

It is one of the most used commands with other commands through piping.

Syntax- tee <options> <file name>

-a, --append: It is used to append the data to the given files, it does not overwrite data.

Example: cat name.txt |tee -a name1.txt cat week.txt weekend.txt |tee -a day.txt

```
Iroot@localhost ~ 1# cat week
weekends.txt week.txt
Iroot@localhost ~ 1# cat week.txt
monday
tuesday
wednesday
thursday
friday
saturday
sunday

Iroot@localhost ~ 1# cat week.txt weekends.txt itee -a days.txt
monday
tuesday
wednesday
tuesday
wednesday
tuesday
friday
saturday
sunday
sunday
saturday
sunday
saturday
sunday
saturday
sunday
saturday
sunday
Iroot@localhost ~ 1#
```

**39) tr** – The command 'tr' stands for **'translate'**. It is used to translate, like from lowercase to uppercase and vice versa or new lines into spaces.

Syntax: command | tr <old> <new>

```
Iroot@localhost ~1# cat days.txt itr "[a-z]" "[A-Z]"
MUNDAY MONDAY.
TUESDAY
MEDNSDAY
THURSDAY
FRIDAY FRIDAY.
SATURDAY
SUNDAY
SUNDAY
SUNDAY
TUESDAY
MUNDAY
TUESDAY
MEDNESDAY
THURSDAY
FRIDAY
SUNDAY
SATURDAY
SUNDAY
THURSDAY
FRIDAY
SATURDAY
SATURDAY
SATURDAY
FRIDAY
SATURDAY
SATURDAY
SATURDAY
SATURDAY
SUNDAY

SATURDAY
SUNDAY

SATURDAY
SUNDAY

SATURDAY
SUNDAY

SATURDAY
SUNDAY
```

40) uniq - uniq command is used to remove all the repeated lines from a file.

Syntax: uniq [OPTION]... [INPUT]

```
Example: uniq -c days.txt (count)
uniq -d days.txt (show only repeated option
uniq -D days.txt (print repeated lines)
uniq -u days.txt (only unique)
```

```
Iroot@localhost ~l# uniq -c days.txt

1 monday monday.

1 tuesday

1 wednsday

1 thursday

1 friday friday.

1 saturday

1 sunday

1 sunday sunday.

1 monday

1 tuesday

1 tuesday

1 thursday

1 thursday

1 saturday

1 saturday

1 saturday

1 saturday

1 toednesday

1 friday

1 saturday

1 saturday

1 saturday

1 saturday

1 saturday

1 sunday

1 sunday

1 sunday

1 sunday

1 saturday

1 saturday

1 sunday

Iroot@localhost ~l# _
```

41) wc – used to count the line, words, & characters in a file.

Syntax: wc filename

```
[root@localhost ~]# wc days.txt

19 22 180 days.txt
[root@localhost ~]# wc days.txt name.txt

19 22 180 days.txt

7 7 48 name.txt

26 29 228 total
[root@localhost ~]# _
```

**42) od –** It displays content of a file in different human-readable formats like hexadecimal, octal and ASCII characters.

Syntax: od -b <filename> od -t x1 <filename> od -c <filename>

**43) gzip –** used to truncate the file size. It is compressing tool. By default original file will be replaced by the compressed file ending with extension (.gz).

Syntax: gzip filename

**44) gunzip –** used to decompressed the file.

Syntax: gunzip filename

```
Froot@localhost ~ l# gzip name.txt

Froot@localhost ~ l# ls

anaconda-ks.cfg da13.txt.bak f-all.txt file-all.txt my_dir new_dir weekends.txt

ash_dir data.txt file2.txt name1.txt new-filee.txt

froot@localhost ~ l# guzip name.txt.gz

Froot@localhost ~ l# ls

anaconda-ks.cfg da13.txt.bak f-all.txt file-all.txt names1.txt new_file.txt

ash_dir data.txt file1.txt my_dir new_dir weekends.txt

ash_dir data.txt file1.txt my_dir new_dir weekends.txt

ash_dir data.txt file1.txt my_dir new_dir weekends.txt

ash_dir data.txt file2.txt name1.txt new-file.txt

ash_dir data.txt file2.txt name1.txt new-file.txt new-file.txt

froot@localhost ~ l# ls

ash_dir data.txt file3.txt name1.txt new-file.txt new-file.txt

ash_dir data.txt file3.txt name1.txt new-file.txt new-file.txt
```

45) Is/etc
White color- regular/ normal file
Blue color- directory
Brighte green – executable file
Bright red – archieve file / compressed file
Magenta – image file
Cyan – audio file
Sky blue – symbolic link file



**46) find** – used to find particular file within a directory. It supports various options to find a file such as by name, type, date & more.

# Symbols -

( ) for current directory name

/ for root

Example: find /root -name names.txt find /root -name "\*.txt" find /etc -name "\*.txt"

```
Iroot@localhost ~1# find /root -name name1.txt
/root/name1.txt
[root@localhost ~1# find /root -name "*.txt"
/root/demo.txt
/root/name1.txt
/root/file1.txt
/root/file2.txt
/root/file3.txt
/root/file-all.txt
/root/new_file.txt
/root/neww.txt
/root/weekends.txt
/root/names1.txt
/root/data.txt
/root/f-all.txt
/root/new-filee.txt
/root/da13.txt
/root/week.txt
/root/days.txt
/root/name.txt
[root@localhost ~]# find /etc -name "*.txt"
/etc/pki/nssdb/pkcs11.txt
[root@localhost ~]#
```

- **47) locate –** used to search a file by filename. Similar to 'find' command **Syntax: locate <filename>**
- **48) date –** used to display date time and timezone **Syntax: date**
- 49) cal used to display the current month calendar with the current date highlighted
- **50) time-** used to display and set the current system time.

51) zcat - used to display compressed file.

Syntax: zcat filename

52) df - used to display the disk space

Syntax: df

53) sleep –

Syntax-sleep <time>

- **54) mount-** used to connect an external device file system to the systems file system. **Syntax- mount -t type <device> <directory>**
- 55) clear- used to clear the terminal screen.Syntax- clear
- 56) exit- used to exit the shell where it is currently running.
  Syntax- exit