Experiment 1:

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Study of Unix general purpose utility command:

man command: Displays help of the following command keyword.

i/p:

```
[aadhithan@fedora]-[~]
sman dir
```

o/p:

```
DIR(1)
                                 User Commands
                                                                        DIR(1)
NAME
       dir - list directory contents
SYNOPSIS
       dir [OPTION]... [FILE]...
DESCRIPTION
       List information about the FILEs (the current directory by default).
       Sort entries alphabetically if none of -cftuvSUX nor --sort is speci-
       fied.
       Mandatory 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
 Manual page dir(1) line 1 (press h for help or q to quit)
```

who command: Displays the current users of the system.

```
[aadhithan@fedora]=[~]

$who

aadhithan tty2 2021-09-15 18:23 (tty2)
```

cat command: Displays the content of the file in the shell terminal.

```
[aadhithan@fedora]=[~/Documents]
$cat README.md
# Fedora

Code is written on Fedora Terminal using the help of VirtualBox
```

cd command: Navigates across directories:

ps command: Lists the current working processes

Is command: lists the content of the directory

cp command: copies the file

my command: moves the file to new destination

rm command: removes/deletes the file

mkdir command: creates a new directory

rmdir command: deletes an existing directory

echo command: prints the text that follows the command

```
[aadhithan@fedora]=[~/Documents/vlsi]
$echo this prints the following
this prints the following
```

date command: prints the current date and time

```
[aadhithan@fedora]-[~/Documents]
sdate
Wed Sep 15 06:51:35 PM IST 2021
```

time command: displays the time required to execute a command

```
"[X]=[aadhithan@fedora]=[~/Documents]
stime date
Wed Sep 15 06:54:26 PM IST 2021

real 0m0.003s
user 0m0.001s
sys 0m0.001s
```

history command: Displays the history of commands

```
[X]-[aadhithan@fedora]-[~/Documents]
 $history
 1 ~
 2 cd
 3 ls
 4 cd ../
 5 ls
 6 cd Documents
   ls -l
 8 cd aadhithan/
 9 ls
10 ls -l
11 cd Documents/
12 ls
13 mkdir vlsi
14 ls
15 cd vlsi
16 ls
17 $date
18 ls
19 date
20 who
   vi python
22 ls
```

pwd command: prints current working directory

shutdown command: schedules shutdown to happen in 2 minutes

```
[X]=[aadhithan@fedora]=[~/Documents]
$\frac{1}{2}$ $\shutdown
$\text{Shutdown scheduled for Wed 2021-09-15 19:08:09 IST, use 'shutdown -c' to cancel.}
```

chmod command: used to change preferences of a file

Before changing user preferences:

```
[aadhithan@fedora] [~/Documents/vlsi/cad]

$ls -l

total 12

-rw-r--r-. 1 aadhithan aadhithan 721 Sep 15 13:09 copy_of_file

-rw-r--r-. 1 aadhithan aadhithan 0 Sep 8 13:33 perl

-rw-r--r-. 1 aadhithan aadhithan 51 Sep 9 12:43 python

-rw-r--r-. 1 aadhithan aadhithan 721 Sep 15 13:07 testVII.txt

-rw-r--r-. 1 aadhithan aadhithan 0 Sep 8 13:33 unix
```

Changing preferences:

```
[aadhithan@fedora]=[~/Documents/vlsi/cad]
$chmod u-w copy_of_file
[aadhithan@fedora]=[~/Documents/vlsi/cad]
$ls -l

total 12
-r--r--. 1 aadhithan aadhithan 721 Sep 15 13:09 copy_of_file
-rw-r--r-. 1 aadhithan aadhithan 0 Sep 8 13:33 perl
-rw-r--r-. 1 aadhithan aadhithan 51 Sep 9 12:43 python
-rw-r--r-. 1 aadhithan aadhithan 721 Sep 15 13:07 testVII.txt
-rw-r--r-. 1 aadhithan aadhithan 0 Sep 8 13:33 unix
```

cal command: Displays the calendar

kill command: kills a program that's running

more command: shifts the file one screen at a time

chown command: change owner of a file

finger command: gets details about a domain

logout command: allows to programmatically logout from the session

To print the list of files created:

Using tree command to display the contents in a tree and branch fashion

```
Terminal
  ⊞
  [aadhithan@fedora]-[~]
    $tree
   Desktop
    Documents
       README.md
        vlsi
        __ cad
                perl
                python
                testVI1.txt
    Downloads
    └─ parrot terminal theme
    Pictures
    Public
   Templates
   Videos
10 directories, 6 files
  [aadhithan@fedora]-[~]
```