DEV SANSKRITI VISHWAVIDYALAYA



SESSION 2018-19

PRACTICAL FILE

ON

OPERATING SYSTEM

SUBMITTED TO:

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Task #1. Unix Basic Commands

(i). Login and Logout:

login: This Command is used to login the user from computer.

Syntax: \$ login <username>

Example: \$ login dsvv

Output:

logout: This Command is used to log out the user from computer.

Syntax: \$ logout <username>

Example: \$ logout dsvv

(ii). Password: This command is used to change the password of the currently login user or of the any account.

Syntax : \$ passwd [options] [username]

Options:

-a: for all accounts

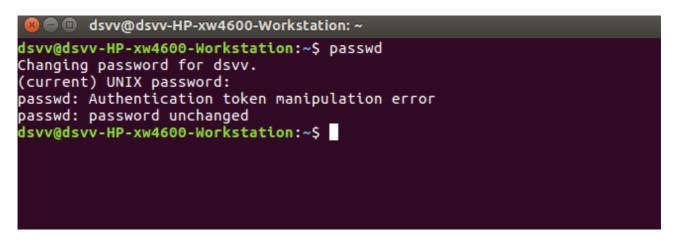
-d : delete the password of the named account

-e : forcely expire the password

-k : change password only if expired

-l : lock the password of the named account -u : unlock the password of the named account

-s: status of the current password



(iii). shutdown and rebooting:

shutdown: This command is used to shutdown the computer.

Syntax : \$ shutdown [options]

options:

-P : power off-r : reboot

-c : cancel a pending shutdown

```
dsvv@dsvv-HP-xw4600-Workstation:~

dsvv@dsvv-HP-xw4600-Workstation:~$ shutdown
Shutdown scheduled for Sun 2018-10-14 04:23:37 IST, use 'shutdown
-c' to cancel.

dsvv@dsvv-HP-xw4600-Workstation:~$ shutdown -c

dsvv@dsvv-HP-xw4600-Workstation:~$
```

Task #2. Commands for basic utilities

(i). cal: This command is used to view the calender.

Syntax : \$ cal[[month]year]

Example: cal 4 2018

(ii).manual: This command is used to check the various options available for the commands and all the details about command.

Syntax: \$ man < command name>

Example: \$ man cal

```
🙎 🖨 📵 dsvv@dsvv-HP-xw4600-Workstation: ~
CAL(1)
                          BSD General Commands Manual
                                                                         CAL(1)
NAME
     cal, ncal — displays a calendar and the date of Easter
     cal [-3hjy] [-A number] [-B number] [[month] year]
     cal [-3hj] [-A number] [-B number] -m month [year]
     ncal [-3bhjJpwySM] [-A number] [-B number] [-s country_code] [[month]
     ncal [-3bhJeoSM] [-A number] [-B number] [year]
     ncal [-CN] [-H vyyy-mm-dd] [-d vyyy-mm]
     The cal utility displays a simple calendar in traditional format and ncal
     offers an alternative layout, more options and the date of Easter. The
     new format is a little cramped but it makes a year fit on a 25x80 termi-
     nal. If arguments are not specified, the current month is displayed.
    The options are as follows:
            Turns off highlighting of today.
Manual page cal(1) line 1 (press h for help or q to quit)
```

(iii). date and time: This commond is used to display the current date and time. It also displays or calculate a date in the format we specify.

Syntax :\$ date[+format]

or, \$ date +%d%m%y

Or, \$date +DATE%d%y%m

or, \$"+DATE:%m%d%y%n TIME:%H%M%S"

Example: \$ date "+DATE:%m%d%y%n TIME:%H%M%S"

```
dsvv@dsvv-Veriton-Series:~

dsvv@dsvv-Veriton-Series:~$ date "+DATE:%m%y%d TIME:%H%M%S"

DATE:101806 TIME:081239

dsvv@dsvv-Veriton-Series:~$

■
```

(iv). who: This command displays the list of users currently logged in.

Syntax : who[option]...[file][arg1]

Example: \$ who

Output:

```
dsvv@dsvv-Aspire-Series: ~

dsvv@dsvv-Aspire-Series: ~$ who
dsvv tty7 2018-09-06 21:16 (:0)
dsvv@dsvv-Aspire-Series: ~$
```

whoami: This command displays the user id of the currently logged in user.

Syntax : whoami[option]

Example: list currently logged in user

\$ whoami

(v). **pwd**: This command will display the present working directory.

Syntax : pwd[option]

Example: \$ pwd

Output:

(vi). history : This command show you all the commands that you have used in the current terminal session.

Syntax: \$ history

```
dsvv@dsvv-Aspire-Series: ~
dsvv@dsvv-Aspire-Series:~$ history
    1 man
       manual
       mannual
    4 man
    5
6
7
       cd ..
dir
       dir help
       help dir
       man ls
mkdir Aniket
   10
   11
       history
   12
13
        ls
        ls -al
   14
15
       ls -R
       ls Aniket
   16
17
       ls -a
la -A
       ls --author
ls -A
ls -l
   18
   19
   20
21
       ls -L
       ls -Q
```

Task #3. Commands for basic utilities

(i). Cat commands : This command is used for file handling, such as creating a file, opening a file, appending a file, etc.

Syntax : \$ cat [options]

Various options of cat command are:

.cat: used to open a file:

Output:

cat> filename : creates the file.

Example : cat> test.txt

Output:

cat -b: opens the file and displays the contents with line numbers.

Example: cat-b b.txt

cat file1>file2 : Append/Replace one file into another.

Example: cat b.txt>cat a.txt

Output:

```
🔊 🖃 📵 dsvv@dsvv-Aspire-Series: ~
dsvv@dsvv-Aspire-Series:~$ cat a.txt
hkjdlgd
hgmvsgijf,
hgmvsgijf,
hgmvsgijf,
hgmvsgijf,
hgmvsgijf,
kmfhjfl
ihello
gjugj
hkl;.'klgf
c programming
dsvv@dsvv-Aspire-Series:~$ cat b.txt
c programming
c programming
dsvv@dsvv-Aspire-Series:~$ cat b.txt>a.txt
dsvv@dsvv-Aspire-Series:~$ cat a.txt
c programming
c programming
dsvv@dsvv-Aspire-Series:~$ cat b.txt
c programming
c programming
dsvv@dsvv-Aspire-Series:~$
```

cat file1>>file2 : To add one file into another.

Example: cat c.txt>>cat b.txt

```
dsvv@dsvv-Aspire-Series:~$ cat b.txt
c programming
c programming
dsvv@dsvv-Aspire-Series:~$ cat c.txt
hkjdlgd
hgmvsgijf,
hgmvsgijf,
hgmvsgijf,
hgmvsgijf,
hgmvsgijf,
kmfhjfl
ihello
gjugj
hkl;.'klgf
c programming
dsvv@dsvv-Aspire-Series:~$ cat c.txt>>b.txt
dsvv@dsvv-Aspire-Series:~$ cat b.txt
c programming
c programming
hkjdlgd
hgmvsgijf,
hgmvsgijf,
hgmvsgijf,
hgmvsgijf,
hgmvsgijf,
kmfhjfl
ihello
gjugj
hkl;.'klgf
c programming
```

(ii). touch: This command is used to create any file.

Syntax: \$ touch < filename >

Example: \$ touch os

Output:

```
🔵 🗊 dsvv@dsvv-Aspire-Series: ~
dsvv@dsvv-Aspire-Series:~$ touch os
dsvv@dsvv-Aspire-Series:~$ ls
                    examples.desktop
                                      Public
                                                                 Videos
Aniket
         Desktop
a.txt
         desktopa
                    Music
                                      Templates
b.txt
         Documents
                                      test_1.odt
                    name.c
c.txt
         Downloads
                                      Unix commands Aniket.odt
                    os
                    Pictures
                                      Untitled 1.odt
desktop
         d.txt
dsvv@dsvv-Aspire-Series:~$
```

(iii). mv: This command is used rename the filename.

Syntax: \$ mv <old filename> <new filename>

Example: mv a.txt b.txt

```
dsvv@dsvv-Veriton-Series: ~/Desktop$ mv a.txt b.txt
dsvv@dsvv-Veriton-Series: ~/Desktop$ cat a.txt
cat: a.txt: No such file or directory
dsvv@dsvv-Veriton-Series: ~/Desktop$ cat b.txt
dsvv@dsvv-Veriton-Series: ~/Desktop$ cat b.txt
hi there
dsvv@dsvv-Veriton-Series: ~/Desktop$
```

(iv). cp: This command is used to copy a file to another file.

Syntax: \$ cp <source file> <destination fiile>

Example : cp b.txt c.txt

```
dsvv@dsvv-Veriton-Series: ~/Desktop$

dsvv@dsvv-Veriton-Series: ~/Desktop$ cp b.txt c.txt

dsvv@dsvv-Veriton-Series: ~/Desktop$ cat c.txt

hi there

dsvv@dsvv-Veriton-Series: ~/Desktop$
```

(v). **ls** – It is used to list all the directories and subdirectories present in that folder.

Syntax: \$ ls [options]

Output:

```
🔋 🖃 🏻 dsvv@dsvv-Aspire-Series: ~
dsvv@dsvv-Aspire-Series:~$ ls
Aniket desktop
                  Downloads
                                                test_1.odt
                                     name.c
a.txt
       Desktop
                  d.txt
                                     Pictures
                                                Unix commands _Aniket.odt
                                                Untitled 1.odt
       desktopa
                   examples.desktop Public
b.txt
       Documents Music
c.txt
                                     Templates
                                                Videos
dsvv@dsvv-Aspire-Series:~$
```

options:

(a) **ls -al**

```
dsvv@dsvv-Asptre-Sertes:-5 ls -al
total 384
drwx-rx:-x 17 dsvv dsvv
drwx-rx:-x 19 dsvv dsvv
drwx-rx:-x 29 dsvv dsvv
dryx-rx:-x 29 dsvv dsvv
dryx-rx:-x
```

(b) **Is -R**: to display directories with subdirectories.

Output:

```
dsvegdsvv-Aspire-Series:-$ is -R
Aniket b.txt desktop desktop Documents d.txt Music Pictures Templates Unix commands _Aniket.odt Videos

//Aniket:
Anit test1 test2 test3
./Aniket/Anit:
./Aniket/test1:
./Aniket/test3:
./Aniket/test3:
./Desktop/Aniket
ani Aniket
./Desktop/Aniket/ani:
./Desktop/Aniket/ani:
./Desktop/Aniket/ani:
./Desktop/Aniket/ani/test/est3:
./Downloads*enethat
./Desktop/Aniket/ani/test/est3:
./Downloads*enethat
./Desktop/Aniket/ani/test/est3:
./Downloads*enethat
./Public:
```

(c) **ls** /: list out all root directories.

```
🔊 🖃 🗊 dsvv@dsvv-Aspire-Series: ~
dsvv@dsvv-Aspire-Series:~$ ls \
                                                test_1.odt
Unix commands _Aniket.odt
Aniket
       desktop
                   Downloads
                                      name.c
        Desktop
a.txt
                   d.txt
                                      Pictures
b.txt
        desktopa examples.desktop
                                     Public
                                                 Untitled 1.odt
       Documents Music
c.txt
                                      Templates Videos
dsvv@dsvv-Aspire-Series:~$
```

(vi). rmdir: This command is used to remove the directory.

Syntax : \$ rmdir [options] [directory name]

option: -p: remove directory and its ancestors

Example: \$ rmdir test

Output:

```
dsvv@dsvv-Veriton-Series: ~/Desktop$

dsvv@dsvv-Veriton-Series: ~/Desktop$ rmdir test
rmdir: failed to remove 'test': Directory not empty
dsvv@dsvv-Veriton-Series: ~/Desktop$ rmdir test
dsvv@dsvv-Veriton-Series: ~/Desktop$ ls
blue b.txt c.txt Front Page.odt linuxcmds new pk Untitled Folder
dsvv@dsvv-Veriton-Series: ~/Desktop$
```

(vii). mkdir: This Command is used to create a directory.

Syntax: \$ mkdir

Example: \$ mkdir India

Task #4 : Commands for identifying UNIX shell

set: This command is used for listing all the shell variables.

Syntax: \$ set | more

```
🔊 🖃 📵 dsvv@dsvv-HP-xw4600-Workstation: ~
dsvv@dsvv-HP-xw4600-Workstation:~$ set
BASH=/bin/bash
BASHOPTS=checkwinsize:cmdhist:complete_fullquote:expand_aliases:extglob:extquote
:force fignore:histappend:interactive comments:progcomp:promptvars:sourcepath
BASH_ALIASES=()
BASH\_ARGC=()
BASH_ARGV=()
BASH_CMDS=()
BASH COMPLETION COMPAT DIR=/etc/bash completion.d
BASH_LINENO=()
BASH_SOURCE=()´
BASH_VERSINFO=([0]="4" [1]="3" [2]="42" [3]="1" [4]="release" [5]="x86_64-pc-lin
ux-gnu")
BASH VERSION='4.3.42(1)-release'
CLUTTER_IM_MODULE=xim
COLUMNS=80
COMPIZ_CONFIG_PROFILE=ubuntu
DBUS_SESSION_BUS_ADDRESS=unix:abstract=/tmp/dbus-wAsUoshoyM
DEFAULTS_PATH=/usr/share/gconf/ubuntu.default.path
DESKTOP_SESSION=ubuntu
DIRSTACK=()
DISPLAY=:0
EUID=1000
GDMSESSION=ubuntu
GDM LANG=en US
GNOME_DESKTOP_SESSION_ID=this-is-deprecated
GNOME_KEYRING_CONTROL=
GNOME_KEYRING_PID=
GPG_AGENT_INFO=/home/dsvv/.gnupg/S.gpg-agent:0:1
GROUPS=()
GTK2_MODULES=overlay-scrollbar
GTK_IM_MODULE=ibus
GTK_MODULES=gail:atk-bridge:unity-gtk-module
HISTCONTROL=ignoreboth
HISTFILE=/home/dsvv/.bash_history
HISTFILESIZE=2000
HISTSIZE=1000
HOME=/home/dsvv
HOSTNAME=dsvv-HP-xw4600-Workstation
HOSTTYPE=x86_64
IFS=$' \t\n'
IM CONFIG_PHASE=1
INSTANCE=
JOB=dbus
LANG=en_IN
LANGUAGE=en IN:en
LESSCLOSE='/usr/bin/lesspipe %s %s'
LESSOPEN='| /usr/bin/lesspipe %s'
LINES=24
```

Task #5: commands to change file and directory access permissions

chmode: This command is used to change the access permission of files and directories.

```
Syntax : chmod[permissions]....[file name]
Example: chmod 720 test.odt

options :
    Read : 4 or -r
    Write : 2 or -w
    execute: 1 or -x

+ : add the permissions
- : remove the permissions
= : overwrite the permissions

acronyms: user - u
    group - g
    other - o
```

```
dsvv@dsvv-HP-xw4600-Workstation:~/Desktop$ chmod 720 Ani
dsvv@dsvv-HP-xw4600-Workstation:~/Desktop$ ls -l
dsvv@dsvv-HP-xw4600-Workstation:~/Desktop$ ls -l
total 8
drwx-w---- 2 dsvv dsvv 4096 Oct 14 04:25 Ani
d------w- 2 dsvv dsvv 4096 Sep 25 08:01 
dsvv@dsvv-HP-xw4600-Workstation:~/Desktop$
```

Task #6: Using pipes and filters and meta characters

(i). grep: This command is used for searching any word or string in a file. Syntax: \$ grep <word/string> filename

Other option: \$ cat filename|grep <word/string>

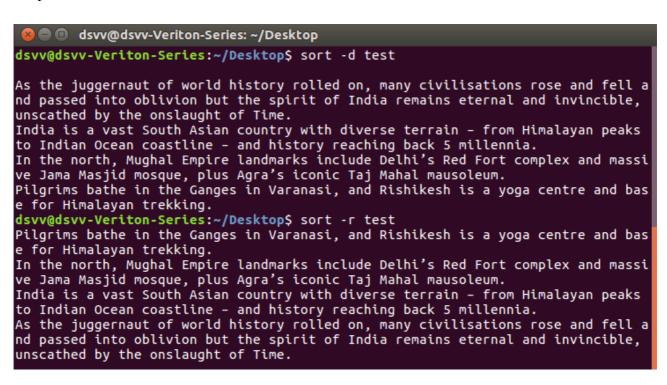
```
dsvv@dsvv-Veriton-Series: ~/Desktop$ grep a test
India is a vast South Asian country with diverse terrain - from Himalayan peaks
to Indian Ocean coastline - and history reaching back 5 millennia.
In the north, Mughal Empire landmarks include Delhi's Red Fort complex and massi
ve Jama Masjid mosque, plus Agra's iconic Taj Mahal mausoleum.
Pilgrims bathe in the Ganges in Varanasi, and Rishikesh is a yoga centre and bas
e for Himalayan trekking.
As the juggernaut of world history rolled on, many civilisations rose and fell a
nd passed into oblivion but the spirit of India remains eternal and invincible,
unscathed by the onslaught of Time.
dsvv@dsvv-Veriton-Series:~/Desktop$
```

(ii). sort: This command is used for arranging the files.

Syntax : \$ sort [options]

Options:

- -d: dictionary order
- -f: ignore case
- -g: general numeric sort
- -M: month sort
- -h: human numeric order
- -n: numeric sort
- -R: random sort
- -r: reverse order



(iii). Regular expressions: They are special characters, which help to search data matching complex patterns and are shortened as **regexp**|**regex**

Basic Regular expressions:

.: replaces any character

 $^{\wedge}$: matches the start of string

\$: matches the end of string

*: matches up 0 or more times the preceding character

\: represent special character

(): groups regular expression

?: matches up exactly one character

Interval Regular expression {n}

- number of times the letter appeared. Syntax: cat filename|grep -E 1/{2}

Braces Regular expression

To print/display anything. Syntax: echo{}

Task #7 Command to deal with processes

(i). top: This command is used for listing the current running processes.

Syntax: \$ top

⊗ □ □ dsvv@dsvv-HP-xw4600-Workstation: ~												
dsvv@dsvv-HP-xw4600-Workstation:~\$ top												
top - 03:23:16 up 1:18, 1 user, load average: 0.09, 0.09, 0.15 Tasks: 198 total, 1 running, 197 sleeping, 0 stopped, 0 zombie %Cpu(s): 4.3 us, 2.9 sy, 10.4 ni, 81.4 id, 0.9 wa, 0.0 hi, 0.0 si, st									si, 0.0			
			4029864 39062524								917764 buf 3230688 ava	
P:	ID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
7	71	root	20	0	248524	67992	27396	s	5.9	1.7	4:37.70	Хогд
	17	dsvv	20	0	661064	34480	27764	s	5.9	0.9	0:00.18	gnome-te
7M+	34	dsvv	20	0	48868	3808	3208	R	5.9	0.1	0:00.01	top
	1	root	20	0	119820	6000	4100	s	0.0	0.1	0:01.49	systemd
	2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kthreadd
d/0	3	root	20	0	0	0	0	S	0.0	0.0	0:00.38	ksoftirq
0:+	5	root	0	-20	0	0	0	s	0.0	0.0	0:00.00	kworker/
d. T	7	root	20	0	0	0	0	S	0.0	0.0	0:02.14	rcu_sche
ď	8	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_bh
n/0	9	root	rt	0	0	0	0	S	0.0	0.0	0:00.00	migratio
	10	root	rt	0	0	0	0	S	0.0	0.0	0:00.00	watchdog
	11	root	rt	0	0	0	0	S	0.0	0.0	0:00.01	watchdog
-	12	root	rt	0	0	0	0	S	0.0	0.0	0:00.00	migratio
	13	root	20	0	0	0	0	S	0.0	0.0	0:00.63	ksoftirq
	15	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kworker/
	16	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kdevtmpf
	17	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	netns
[1]	+	Stop	ped		t	ор						

(ii). fg: This command is used to check foreground processes. Syntax: \$ fg

Output:

```
clear
dsvv@dsvv-HP-xw4600-Workstation: ~

clear
dsvv@dsvv-HP-xw4600-Workstation: ~

firefox

firefox
dsvv@dsvv-HP-xw4600-Workstation: ~

firefox
dsvv@dsvv-HP-xw4600-Workstation: ~

firefox
dsvv@dsvv-HP-xw4600-Workstation: ~

firefox
```

bg: This command is used to check background processes

Syntax: \$ bg Output:

```
dsvv@dsvv-HP-xw4600-Workstation:~

dsvv@dsvv-HP-xw4600-Workstation:~$ firefox

^Z

[1]+ Stopped firefox
dsvv@dsvv-HP-xw4600-Workstation:~$ bg

[1]+ firefox &
dsvv@dsvv-HP-xw4600-Workstation:~$

dsvv@dsvv-HP-xw4600-Workstation:~$
```

(iii). kill: This command is used for stopping a process.

Syntax: \$ kill <PID> Example: \$ kill firefox

Task #8: Commands for Communication

(i). ifconfig: This command is used to see the addres. (physical as well as logical).

Syntax: \$ ifconfig

```
🔊 🗐 📵 dsvv@dsvv-HP-xw4600-Workstation: ~
dsvv@dsvv-HP-xw4600-Workstation:~$ ifconfig
enp63s0
          Link encap:Ethernet HWaddr 00:22:64:b9:a8:55
          inet addr:192.160.117.110 Bcast:192.160.117.255 Mask:255.255.255.0
          inet6 addr: fe80::84f4:4fea:b95:9c9e/64 Scope:Link
         UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:41649 errors:0 dropped:0 overruns:0 frame:0
          TX packets:9646 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:14945242 (14.9 MB) TX bytes:2018006 (2.0 MB)
          Interrupt:17
lo
         Link encap:Local Loopback
          inet addr:127.0.0.1 Mask:255.0.0.0
         inet6 addr: ::1/128 Scope:Host
UP LOOPBACK RUNNING MTU:65536 Metric:1
          RX packets:1907 errors:0 dropped:0 overruns:0 frame:0
          TX packets:1907 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1
          RX bytes:314788 (314.7 KB) TX bytes:314788 (314.7 KB)
dsvv@dsvv-HP-xw4600-Workstation:~$
```

(ii). ping: This command is used to see ping time of any IP address or hostname.

Syntax: \$ ping <IP address / hostname>

Example: \$ ping

Output:

```
dsvv@dsvv-HP-xw4600-Workstation: ~

dsvv@dsvv-HP-xw4600-Workstation: ~

Usage: ping [-aAbBdDfhLnOqrRUvV] [-c count] [-i interval] [-I interface]

[-m mark] [-M pmtudisc_option] [-l preload] [-p pattern] [-Q tos]

[-s packetsize] [-S sndbuf] [-t ttl] [-T timestamp_option]

[-w deadline] [-W timeout] [hop1 ...] destination

dsvv@dsvv-HP-xw4600-Workstation:~$

■
```

(iii). telnet: This command is used for connecting to IP address or hostname.

Syntax: \$ telnet <IP address / hostname>

Example: telnet google.com

```
Super.

Steper.

dsvv@dsvv-HP-xw4600-Workstation:~

dsvv@dsvv-HP-xw4600-Workstation:~

Trying 172.217.31.14...
```

(iv). ssh: This command is similar to telnet and is used for connecting to IP address or hostname. It is more secure than telnet.

Syntax: \$ ssh <IP address/host name>

Output:

(v). nslookup: This command is used for identifying IP address of the hostname.

Syntax: \$ nslookup <hostname>

Task #9: Commands for Vi editor

Syntax : vi <filename> Example : vi c.txt

Output:

```
dsvv@dsvv-Aspire-Series:~$ vi c.txt
dsvv@dsvv-Aspire-Series:~$
```

To go into insert mode: i

To go into command mode: Esc

To exit from the vi editor : wq (in command mode) [w is used for saving the file]

Cursor movement commands:

move the cursor one character left : \mathbf{h} move the cursor one character right : \mathbf{l} move the cursor one line up : \mathbf{k} move the cursor one line down : \mathbf{i}

:n (n=line no.) or **nG**: cursor goes to the specified line.

\$:- move the cursor to the end of the current line.

o :- It will move the cursor in beginning of the current line.

w:- It will move the cursor one word forward. **b:-** it will move the cursor one word backward.

Text deletion commands:

x : deletion of one character

dw: delete one word

db : delete one word backward
yy : copy content (current line)

p : paste downwardP : paste upward

u : undo U : redo

a: append the text following the current cursor position

A : append the text to the end of the current line.

Vi:

Task #10: List of environment variables in Linux/Unix

(i). accessing variable values: This command is used to see the value of a variable.

Syntax : \$ echo \$variable_name

Example: \$ echo \$var

(ii). Create Variable: This command is used for creating a variable.

Syntax : \$ variable_name=value

Example: \$ var = 123

(iii). Delete Variable: This command is used for deleting a variable.

Syntax : \$ unset variable_name

Example: \$ unset var