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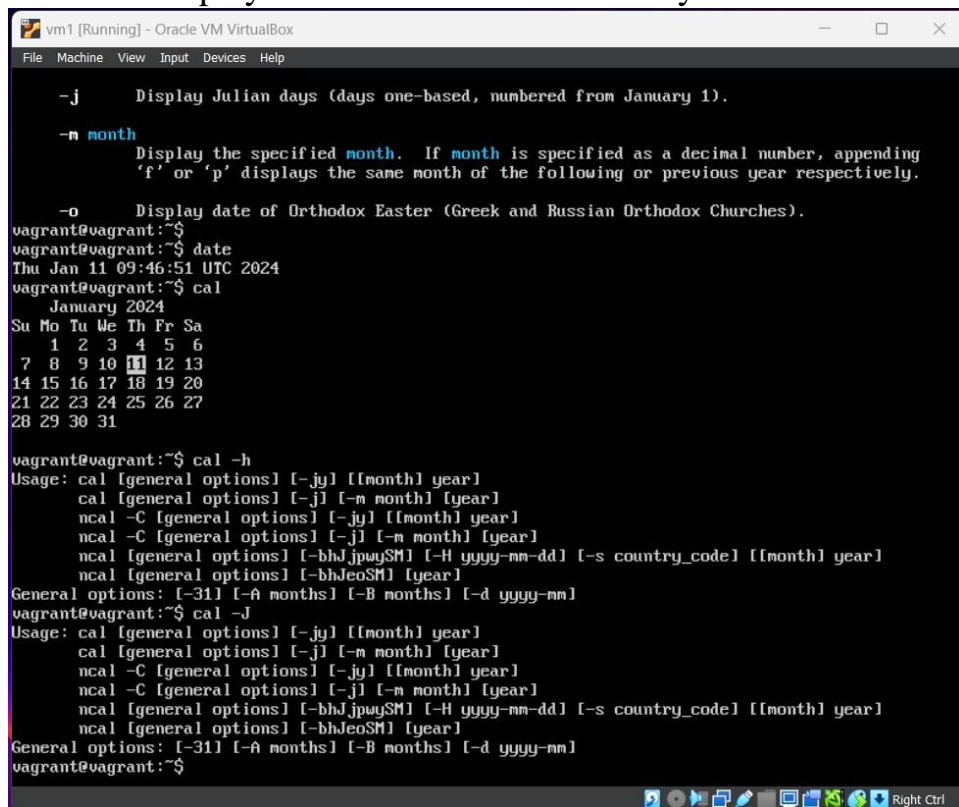
Class :- AIDS/C

Roll Number :- 77

GR Number :- 12110333

Commands and Output –

1. Date : To display current date & time of the system.



```
vm1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

-j      Display Julian days (days one-based, numbered from January 1).

-m month
Display the specified month. If month is specified as a decimal number, appending
'f' or 'p' displays the same month of the following or previous year respectively.

-o      Display date of Orthodox Easter (Greek and Russian Orthodox Churches).
vagrant@vagrant:~$ date
Thu Jan 11 09:46:51 UTC 2024
vagrant@vagrant:~$ cal
January 2024
Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6
 7  8  9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31
vagrant@vagrant:~$ cal -h
Usage: cal [general options] [-jy] [[month] year]
       cal [general options] [-j] [-m month] [year]
       ncal -C [general options] [-jy] [[month] year]
       ncal -C [general options] [-j] [-m month] [year]
       ncal [general options] [-bhj jpyySM] [-H yyyy-mm-dd] [-s country_code] [[month] year]
       ncal [general options] [-bhJeoSM] [year]
General options: [-31] [-A months] [-B months] [-d yyyy-mm]
vagrant@vagrant:~$ cal -J
Usage: cal [general options] [-jy] [[month] year]
       cal [general options] [-j] [-m month] [year]
       ncal -C [general options] [-jy] [[month] year]
       ncal -C [general options] [-j] [-m month] [year]
       ncal [general options] [-bhj jpyySM] [-H yyyy-mm-dd] [-s country_code] [[month] year]
       ncal [general options] [-bhJeoSM] [year]
General options: [-31] [-A months] [-B months] [-d yyyy-mm]
vagrant@vagrant:~$
```

```
vm1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

-H, --heading
    print line of column headings

--ips    print ips instead of hostnames. with --lookup, canonicalizes based on stored IP, if
         available, rather than stored hostname

-l, --login
    print system login processes

--lookup
    attempt to canonicalize hostnames via DNS

-m       only hostname and user associated with stdin

-p, --process
    print active processes spawned by init
vagrant@vagrant:~$ cal -j
January 2024
Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6
 7  8  9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31

vagrant@vagrant:~$ who -a
      system boot    2024-01-11 09:36
vagrant - tty1      2024-01-11 09:37          1214
      run-level 5    2024-01-11 09:37

vagrant@vagrant:~$ who -b
      system boot    2024-01-11 09:36
vagrant@vagrant:~$ who -d
vagrant@vagrant:~$ who -l
vagrant@vagrant:~$ who -m
vagrant tty1      2024-01-11 09:37
vagrant@vagrant:~$
```

2. Cal –

To display calendar of current month.

```
vagrant@vagrant:~$ cal
January 2024
Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6
 7  8  9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31
```

Option commands –

cal -y

2024																							
January							February							March									
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa			
	1	2	3	4	5	6						1	2	3						1	2		
7	8	9	10	11	12	13	4	5	6	7	8	9	10	3	4	5	6	7	8	9			
14	15	16	17	18	19	20	11	12	13	14	15	16	17	10	11	12	13	14	15	16			
21	22	23	24	25	26	27	18	19	20	21	22	23	24	17	18	19	20	21	22	23			
28	29	30	31				25	26	27	28	29			24	25	26	27	28	29	30			
														31									
April							May							June									
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa			
	1	2	3	4	5	6						1	2	3	4					1			
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8			
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15			
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22			
28	29	30					26	27	28	29	30	31		23	24	25	26	27	28	29			
														30									
July							August							September									
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa			
	1	2	3	4	5	6					1	2	3	1	2	3	4	5	6	7			
7	8	9	10	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14			
14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21			
21	22	23	24	25	26	27	18	19	20	21	22	23	24	22	23	24	25	26	27	28			
28	29	30	31				25	26	27	28	29	30	31	29	30								
October							November							December									
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa			
	1	2	3	4	5							1	2	1	2	3	4	5	6	7			
6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14			
13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21			
20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28			
27	28	29	30	31			24	25	26	27	28	29	30	29	30	31							

vagrant@vagrant:~\$ cal -m june

June 2024						
Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

vagrant@vagrant:~\$ cal -m6

June 2024						
Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

vagrant@vagrant:~\$

```
vagrant@vagrant:~$ cal -A6 -B2
November 2023      December 2023      January 2024
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
  1 2 3 4          1 2          1 2 3 4 5 6
 5 6 7 8 9 10 11   3 4 5 6 7 8 9   7 8 9 10 11 12 13
12 13 14 15 16 17 18 10 11 12 13 14 15 16 14 15 16 17 18 19 20
19 20 21 22 23 24 25 17 18 19 20 21 22 23 21 22 23 24 25 26 27
26 27 28 29 30     24 25 26 27 28 29 30 28 29 30 31
                        31

February 2024      March 2024      April 2024
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
  1 2 3          1 2          1 2 3 4 5 6
 4 5 6 7 8 9 10   3 4 5 6 7 8 9   7 8 9 10 11 12 13
11 12 13 14 15 16 17 10 11 12 13 14 15 16 14 15 16 17 18 19 20
18 19 20 21 22 23 24 17 18 19 20 21 22 23 21 22 23 24 25 26 27
25 26 27 28 29     24 25 26 27 28 29 30 28 29 30

May 2024           June 2024           July 2024
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
  1 2 3 4          1          1 2 3 4 5 6
 5 6 7 8 9 10 11   2 3 4 5 6 7 8   7 8 9 10 11 12 13
12 13 14 15 16 17 18 9 10 11 12 13 14 15 14 15 16 17 18 19 20
19 20 21 22 23 24 25 16 17 18 19 20 21 22 21 22 23 24 25 26 27
26 27 28 29 30 31 23 24 25 26 27 28 29 28 29 30 31
                        30

vagrant@vagrant:~$ cal -A1 -B1 june 2015
May 2015           June 2015           July 2015
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
                1 2          1 2 3 4 5 6          1 2 3 4
 3 4 5 6 7 8 9     7 8 9 10 11 12 13          5 6 7 8 9 10 11
10 11 12 13 14 15 16 14 15 16 17 18 19 20 12 13 14 15 16 17 18
17 18 19 20 21 22 23 21 22 23 24 25 26 27 19 20 21 22 23 24 25
24 25 26 27 28 29 30 28 29 30          26 27 28 29 30 31
31

vagrant@vagrant:~$
```

3. who : List who is currently logged on to the system.

Commands and 5 options –

```
sudo apt install ncal
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ who
vit      tty2          2024-01-18 14:36 (tty2)
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ man who
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ who -a
      system boot  2024-01-18 14:35
vit    + tty2      2024-01-18 14:36 old          1581 (tty2)
      run-level 5  2024-01-18 14:36
      pts/1       2024-01-18 14:40          2786 ld=ts/1  term=0 exit=100
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ who -l
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ who -H
NAME     LINE     TIME     COMMENT
vit      tty2     2024-01-18 14:36 (tty2)
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ who -r
      run-level 5  2024-01-18 14:36
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ whont
```

4.whoami : Report what user you are logged on as.


```

vagrant@vagrant:~$ whoami
vagrant
vagrant@vagrant:~$ whoami --version
whoami (GNU coreutils) 8.28
Copyright (C) 2017 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY to the extent permitted by law.

Written by Richard Mlynarik.
vagrant@vagrant:~$ whoami -u
whoami: invalid option -- 'u'
Try 'whoami --help' for more information.
vagrant@vagrant:~$ whoami -e
whoami: invalid option -- 'e'
Try 'whoami --help' for more information.
vagrant@vagrant:~$ whoami --e
whoami: invalid option -- '-'
Try 'whoami --help' for more information.
vagrant@vagrant:~$ whoami -u
whoami: invalid option -- 'u'
Try 'whoami --help' for more information.
vagrant@vagrant:~$ whoami -help
whoami: invalid option -- 'h'
Try 'whoami --help' for more information.
vagrant@vagrant:~$ whoami --help
Usage: whoami [OPTION]...
Print the user name associated with the current effective user ID.
Same as id -un.

--help      display this help and exit
--version   output version information and exit

GNU coreutils online help: <http://www.gnu.org/software/coreutils/>
Full documentation at: <http://www.gnu.org/software/coreutils/whoami>
or available locally via: info '(coreutils) whoami invocation'
vagrant@vagrant:~$

```

5. echo : Echo a string (or list of arguments) to the terminal

```

vagrant@vagrant:~$ echo -e "This\t is Os\t assignment"
This      is Os  assignment
vagrant@vagrant:~$ echo -e "This\n is Os\n assignment"
This
is Os
assignment
vagrant@vagrant:~$ echo -e "This\b is Os\b assignment"
Thi is O assignment
vagrant@vagrant:~$ echo -e "This\c is Os\c assignment"
Thisvagrant@vagrant:~$ echo -e "This\v is Os\v assignment"
This
      is Os
          assignment
vagrant@vagrant:~$

```

6. bc : To perform mathematical operations

```
(Interrupt) use quit to exit.  
quit  
vagrant@vagrant:~$ echo "12+5" | bc  
17  
vagrant@vagrant:~$ echo "var=10;var" | bc  
10  
vagrant@vagrant:~$ echo "var=500;var%=7;var" | bc  
3  
vagrant@vagrant:~$ echo "var=10;var++"|bc  
10  
vagrant@vagrant:~$ echo var  
var  
vagrant@vagrant:~$ echo "var" | bc  
0  
vagrant@vagrant:~$ echo "10>5" | bc  
1  
vagrant@vagrant:~$ _
```

7. clear : To clear the screen

clear

```
vagrant@vagrant:~$
```

8. alias : Used to tailor commands

```

vagrant@vagrant:~$ alias shortname="longer command"
vagrant@vagrant:~$ alias -p
alias alert='notify-send --urgency=low -i "${[ $? = 0 ] && echo terminal || echo error}" "$(history
tail -n1sed -e '\s/\s*[0-9]\+\s*//;s/[[:&]]\s*alert$/\s*\s*')'"
alias egrep='egrep --color=auto'
alias fgrep='fgrep --color=auto'
alias grep='grep --color=auto'
alias l='ls -CF'
alias la='ls -A'
alias ll='ls -alF'
alias ls='ls --color=auto'
alias shortname='longer command'
vagrant@vagrant:~$ alias --help
alias: alias [-p] [name[=value] ... ]
    Define or display aliases.

Without arguments, 'alias' prints the list of aliases in the reusable
form 'alias NAME=VALUE' on standard output.

Otherwise, an alias is defined for each NAME whose VALUE is given.
A trailing space in VALUE causes the next word to be checked for
alias substitution when the alias is expanded.

Options:
  -p          print all defined aliases in a reusable format

Exit Status:
alias returns true unless a NAME is supplied for which no alias has been
defined.
vagrant@vagrant:~$

```

```

vagrant@vagrant:~$ alias CD="cd Desktop"
vagrant@vagrant:~$ unalias longer command
-bash: unalias: longer: not found
-bash: unalias: command: not found
vagrant@vagrant:~$ unalias cd Desktop
-bash: unalias: cd: not found
-bash: unalias: Desktop: not found
vagrant@vagrant:~$ unalias CD
vagrant@vagrant:~$

```

9. `man <cmd name>`: To get help for any command

NAME

bc - An arbitrary precision calculator language

SYNTAX

bc [-hlwsv] [long-options] [file ...]

DESCRIPTION

bc is a language that supports arbitrary precision numbers with interactive execution of statements. There are some similarities in the syntax to the C programming language. A standard math library is available by command line option. If requested, the math library is defined before processing any files. bc starts by processing code from all the files listed on the command line in the order listed. After all files have been processed, bc reads from the standard input. All code is executed as it is read. (If a file contains a command to halt the processor, bc will never read from the standard input.)

This version of bc contains several extensions beyond traditional bc implementations and the POSIX draft standard. Command line options can cause these extensions to print a warning or to be rejected. This document describes the language accepted by this processor. Extensions will be identified as such.

OPTIONS

- h, --help
Print the usage and exit.
- i, --interactive
Force interactive mode.
- l, --mathlib
Define the standard math library.
- w, --warn
Give warnings for extensions to POSIX bc.
- s, --standard

Manual page bc(1) line 1 (press h for help or q to quit)


```
ECHO(1)                                     User Commands                               ECHO(1)
NAME
    echo - display a line of text

SYNOPSIS
    echo [SHORT-OPTION]... [STRING]...
    echo LONG-OPTION

DESCRIPTION
    Echo the STRING(s) to standard output.

    -n      do not output the trailing newline
    -e      enable interpretation of backslash escapes
    -E      disable interpretation of backslash escapes (default)
    --help  display this help and exit
    --version
            output version information and exit

    If -e is in effect, the following sequences are recognized:

    \\\      backslash
    \a      alert (BEL)
    \b      backspace
    \c      produce no further output
    \e      escape
    \f      form feed

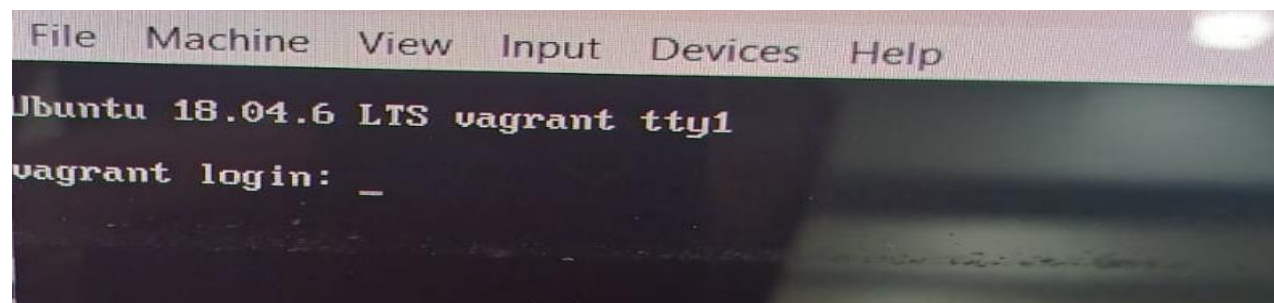
Manual page echo(1) line 1 (press h for help or q to quit)
```

10. passwd: To change the password

```
alias ll='ls -aF'
alias ls='ls --color=auto'
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ passwd
Changing password for vit.
Current password:
New password:
BAD PASSWORD: The password is the same as the old one
New password:
BAD PASSWORD: The password is shorter than 8 characters
New password:
BAD PASSWORD: The password is shorter than 8 characters
passwd: Have exhausted maximum number of retries for service
passwd: password unchanged
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ touch ~/test.txt
```

```
vagrant@vagrant:~$ sudo passwd -Sa
root L 12/19/2021 0 99999 7 -1
daemon L 09/15/2021 0 99999 7 -1
bin L 09/15/2021 0 99999 7 -1
sys L 09/15/2021 0 99999 7 -1
sync L 09/15/2021 0 99999 7 -1
games L 09/15/2021 0 99999 7 -1
man L 09/15/2021 0 99999 7 -1
lp L 09/15/2021 0 99999 7 -1
mail L 09/15/2021 0 99999 7 -1
news L 09/15/2021 0 99999 7 -1
uucp L 09/15/2021 0 99999 7 -1
proxy L 09/15/2021 0 99999 7 -1
www-data L 09/15/2021 0 99999 7 -1
backup L 09/15/2021 0 99999 7 -1
list L 09/15/2021 0 99999 7 -1
irc L 09/15/2021 0 99999 7 -1
gnats L 09/15/2021 0 99999 7 -1
nobody L 09/15/2021 0 99999 7 -1
systemd-network L 09/15/2021 0 99999 7 -1
systemd-resolve L 09/15/2021 0 99999 7 -1
syslog L 09/15/2021 0 99999 7 -1
messagebus L 09/15/2021 0 99999 7 -1
_apt L 09/15/2021 0 99999 7 -1
lxd L 12/19/2021 0 99999 7 -1
uidd L 12/19/2021 0 99999 7 -1
dnsmasq L 12/19/2021 0 99999 7 -1
landscape L 12/19/2021 0 99999 7 -1
pollinate L 12/19/2021 0 99999 7 -1
statd L 12/19/2021 0 99999 7 -1
sshd L 12/19/2021 0 99999 7 -1
vagrant P 12/19/2021 0 99999 7 -1
vboxadd L 12/19/2021 -1 -1 -1 -1
vagrant@vagrant:~$
```

11. exit –



File & Directory Related Commands

1. `cp <fromfile> <tofile>`: Copy from the <fromfile> to the <tofile>

```
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ touch ritesh.txt
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ nano ritesh.txt
my name is ritesh
X
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ touch parwal.txt
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ cp ritesh.txt parwal.txt
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ cat parwal.txt
my name is ritesh
X
```

2. `mv <fromfile> <tofile>` : Move/rename the <fromfile> to the <tofile>

```
my name is ritesh
X
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ mv ritesh.txt riteshparwal.txt
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ cat ritesh.txt
cat: ritesh.txt: No such file or directory
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ cat riteshparwal.txt
my name is ritesh
X
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ touch ritesh.txt
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ rm ritesh.txt
```

3. `rm <file>`: Remove the file named <file>

```
my name is ritesh
X
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ touch ritesh.txt
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ rm ritesh.txt
```

4. `mkdir <newdir>`: Make a new directory called <newdir>

```
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ mkdir thisisnewdir -v
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ man mkdir
mkdir: created directory 'thisisnewdir'
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ mkdir thisisnewdir -z
mkdir: invalid option -- 'z'
Try 'mkdir --help' for more information.
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ mkdir -z
mkdir: invalid option -- 'z'
Try 'mkdir --help' for more information.
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ mkdir thisisnewdir -m
mkdir: option requires an argument -- 'm'
Try 'mkdir --help' for more information.
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ mkdir -m
mkdir: option requires an argument -- 'm'
Try 'mkdir --help' for more information.
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ mkdir thisisnewdir -p
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ mkdir -p
mkdir: missing operand
Try 'mkdir --help' for more information.
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ man mkdir
No manual entry for mkdir
```


5. `rmdir <dir>`: Remove an (empty) directory

```
Usage of /: 2.4% of 61.80GB  Users logged in: 0
Memory usage: 13%          IP address for eth0: 10.0.2.6
Swap usage: 0%

This system is built by the Bento project by Chef Software
More information can be found at https://github.com/chef/bento
vagrant@vagrant:~$ mkdir vinay
vagrant@vagrant:~$ rmdir vinay
vagrant@vagrant:~$
```

6. `cd <dir>`: Change the current working directory to dir

```
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ cd thisisnewdir
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~/thisisnewdir$ man CD
Command 'man' not found, did you mean:
  command 'mag' from deb mag (0.7.1-9)
  command 'mad' from deb mmv (1.01b-19build1)
  command 'man' from deb man-db (2.10.2-1)
  command 'mag' from deb texlive-binaries (2021.20210626.59705-1ubuntu0.1)
Try: sudo apt install <deb name>
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~/thisisnewdir$ man cd
No manual entry for cd
```

7. `pwd` : Print (display) the working directory

```
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~/thisisnewdir$ cd
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ pwd
/home/vit
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ man ped
No manual entry for ped
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ man pwd
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ pwd -L
/home/vit
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ pwd -P
/home/vit
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ man pwd
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ pwd --version
bash: pwd: --: invalid option
pwd: usage: pwd [-LP]
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ pwd -help
bash: pwd: -h: invalid option
pwd: usage: pwd [-LP]
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ pwd --help
pwd: pwd [-LP]
Print the name of the current working directory.

Options:
  -L      print the value of $PWD if it names the current working
          directory
  -p      print the physical directory, without any symbolic links

By default, 'pwd' behaves as if '-L' were specified.

Exit Status:
Returns 0 unless an invalid option is given or the current directory
cannot be read.
```

8. `cat > <file>` : To create new file n save it by pressing ^d
`cat >> <file>`: To append contents into file
`cat <file>`: To see the contents of existing file

```

> ok have a nice day
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ cat >this.txt
this is new file
this is cat > command
^X^X^C
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ cat this.txt
this is new file
this is cat > command
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ cat >> this.txt
this.txt file is updated
^C
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ cat this.txt
this is new file
this is cat > command
this.txt file is updated

```

9. more <file>:Paging out the contents of file

On the Insert tab, the galleries include items that are designed to coordinate with the overall look of your document. You can use these galleries to insert tables, headers, footers, lists, cover pages, and other document building blocks. When you create pictures, charts, or diagrams, they also coordinate with your current document look. You can easily change the formatting of selected text in the document text by choosing a look for the selected text from the Quick Styles gallery on the Home tab. You can also format text directly by using the other controls on the Home tab.

Most controls offer a choice of using the look from the current theme or using a format that you specify directly. To change the overall look of your document, choose new Theme elements on the Page Layout tab. To change the looks available in the Quick Style gallery, use the Change Current Quick Style Set command. Both the Themes gallery and the Quick Styles gallery provide reset commands so that you can always restore the look of your document to the original contained in your current template. On the Insert tab, the galleries include items that are designed to coordinate with the overall look of your document.

You can use these galleries to insert tables, headers, footers, lists, cover pages, and other document building blocks. When you create pictures, charts, or diagrams, they also coordinate with your current document look. You can easily change the formatting of selected text in the document text by choosing a look for the selected text from the Quick Styles gallery on the Home tab. You can also format text directly by using the other controls on the Home tab. Most controls offer a choice of using the look from the current theme or using a format that you

--More--(5%)[Press space to continue, 'q' to quit.]

your document to the original contained in your current template. On the Insert tab, the galleries include items that are designed to coordinate with the overall look of your document. You can use these galleries to insert tables, headers, footers, lists, cover pages, and other document building blocks. When you create pictures, charts, or diagrams, they also coordinate with your current document look. You can easily change the formatting of selected text in the document text by choosing a look for the selected text from the Quick Styles gallery on the Home tab. You can also format text directly by using the other controls on the Home tab. Most controls offer a choice of using the look from the current theme or using a format that you specify directly. To change the overall look of your document, choose new Theme elements on the Page Layout tab.

To change the looks available in the Quick Style gallery, use the Change Current Quick Style Set command. Both the Themes gallery and the Quick Styles gallery provide

--More-- (10%)

reset commands so that you can always restore the look of your document to the original contained in your current template. On the Insert tab, the galleries include items that are designed to coordinate with the overall look of your document. You can use these galleries to insert tables, headers, footers, lists, cover pages, and other document building blocks. When you create pictures, charts, or diagrams, they also coordinate with your current document look.

You can easily change the formatting of selected text in the document text by choosing a look for the selected text from the Quick Styles gallery on the Home tab. You can also format text directly by using the other controls on the Home tab.

10. file <file>:To check the type of file

```
vagrant@vagrant:~$ touch vinay.txt
vagrant@vagrant:~$ file vinay
vinay: cannot open 'vinay' (No such file or directory)
vagrant@vagrant:~$ file vinay.txt
vinay.txt: empty
vagrant@vagrant:~$ _
```

11. comm <file1> <file2>:To display common values between two files

```
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC: $ comm riteshparwal.txt ritesh.txt -1
comm: file 1 is not in sorted order
this is ritesh.txt file
comm: file 2 is not in sorted order
ok have a nice day
comm: input is not in sorted order
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC: $ comm riteshparwal.txt ritesh.txt -2
my name is riteshparwal.txt
comm: file 1 is not in sorted order
^d
d
this is new line
comm: file 2 is not in sorted order
comm: input is not in sorted order
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC: $ comm riteshparwal.txt ritesh.txt -3
my name is riteshparwal.txt
comm: file 1 is not in sorted order
^d
d
this is new line
      this is ritesh.txt file
comm: file 2 is not in sorted order
      ok have a nice day
comm: input is not in sorted order
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC: $ comm riteshparwal.txt ritesh.txt -z
my name is riteshparwal.txt
^d
d
this is new line
      this is ritesh.txt file
ok have a nice day
```


12. `cmp <file1> <file2>`: To compare two files

```
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ man cmp
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ cmp riteshparwal.txt ritesh.txt
cmp: ritesh.txt: No such file or directory
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ cmp riteshparwal.txt riteshparwal.txt
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ touch ritesh.txt
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ nano ritesh.txt
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ cmp riteshparwal.txt ritesh.txt
riteshparwal.txt ritesh.txt differ: byte 1, line 1
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ man cmp
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ cmp riteshparwal.txt ritesh.txt -b
riteshparwal.txt ritesh.txt differ: byte 1, line 1 is 155 m 164 t
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ cmp riteshparwal.txt ritesh.txt -i
cmp: option requires an argument -- 'i'
cmp: Try 'cmp --help' for more information.
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ cmp riteshparwal.txt ritesh.txt --i
```

13. `diff <file1> <file2>`: To convert one file to another

```
ok have a nice day
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ diff riteshparwal.txt ritesh.txt
1,4c1,2
< my name is riteshparwal.txt
< ^d
< d
< this is new line
---
> this is ritesh.txt file
> ok have a nice day
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ c
```

14. `ln <fromfile> <tofile>`: Creates a symbolic link to a file

```
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ ln riteshparwal.txt ritesh.txt
ln: failed to create hard link 'ritesh.txt': File exists
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ man ln
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ ln riteshparwal.txt
ln: failed to create hard link './riteshparwal.txt': File exists
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ ln rites.txt
ln: failed to access 'rites.txt': No such file or directory
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ ln ritesh.txt
ln: failed to create hard link './ritesh.txt': File exists
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ ln riteshparwal.txt
ln: failed to create hard link './riteshparwal.txt': File exists
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ ln riteshparwal.txt p
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ man ln
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ ln riteshparwal.txt ritesh.txt
```

15. `ls`: List the files in the current working directory

`ls <dir>`: List all files & directories in given directory

```
Try 'mkdir --help' for more information.
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ /ls/home
bash: /ls/home: No such file or directory
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ ls
assignment_01.txt  bhushan.txt  Desktop  Downloads  newDir  parwal.txt  Pictures  riteshparwal.txt  sahil.txt  Templates  this.txt.gz
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ man gzip
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ gunzip this.txt
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ ls
assignment_01.txt  bhushan.txt  Desktop  Downloads  newDir  parwal.txt  Pictures  riteshparwal.txt  sahil.txt  Templates  this.txt
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ ls newDir
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ mkdir thisisnewdir
mkdir: cannot create directory 'thisisnewdir': File exists
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$
```

16. gzip <file>:To compress the file

```
Try 'mkdir --help' for more information.
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ /ls/home
bash: /ls/home: No such file or directory
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ ls
assignment_01.txt  bhushan.txt  Documents  Music  newdirr  Pictures  riteshpawal.txt  sahil.txt  Templates  this.txt.gz
bhushan           Desktop      Downloads  newDir  parwal.txt  Public    ritesh.txt       snap      thisisnewdir  Videos
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ man gzip
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ gunzip this.txt
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ ls
assignment_01.txt  bhushan.txt  Documents  Music  newdirr  Pictures  riteshpawal.txt  sahil.txt  Templates  this.txt
bhushan           Desktop      Downloads  newDir  parwal.txt  Public    ritesh.txt       snap      thisisnewdir  Videos
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ ls newDir
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ mkdir thisisnewdir
mkdir: cannot create directory 'thisisnewdir': File exists
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$
```

17. gunzip <file>:To unzip the contents of zipped file

```
Try 'mkdir --help' for more information.
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ /ls/home
bash: /ls/home: No such file or directory
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ ls
assignment_01.txt  bhushan.txt  Documents  Music  newdirr  Pictures  riteshpawal.txt  sahil.txt  Templates  this.txt.gz
bhushan           Desktop      Downloads  newDir  parwal.txt  Public    ritesh.txt       snap      thisisnewdir  Videos
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ man gzip
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ gunzip this.txt
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ ls
assignment_01.txt  bhushan.txt  Documents  Music  newdirr  Pictures  riteshpawal.txt  sahil.txt  Templates  this.txt
bhushan           Desktop      Downloads  newDir  parwal.txt  Public    ritesh.txt       snap      thisisnewdir  Videos
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ ls newDir
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ mkdir thisisnewdir
mkdir: cannot create directory 'thisisnewdir': File exists
vit@vit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$
```