EXPERIMENT NO.02

LIST OF BASIC COMMANDS

1.Date

Description:shows today's date.

syntax:date

Example:

```
[liveuser@localhost-live Documents]$ date
Mon Mar 20 10:19:03 AM EDT 2023
```

2.Calender

A] Description: Shows current month

calender Syntax: cal

Example:

```
[liveuser@localhost-live Documents]$ cal
 March 2023
      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
```

B] Description:Shows specific month

calender Syntax: cal month year

Example:

```
[liveuser@localhost-live Documents]$ cal july 2023
     July 2023
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
```

C] Description:Shows specific years

calender Syntax: cal year

Example:

[liveuser@localhost-live Documents]$ cal 2020

2020

January

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	

February

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

March

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				

April

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		

May

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						

June

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				

July

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	

August

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					

September

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			

October

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

November

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					

December

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		

3.Echo

Description:prints string
Syntax:echo “string”
Example:
[liveuser@localhost-live Documents]$ echo "pundalik desai,chinmay mondkar"
pundalik desai,chinmay mondkar

4.Clear

Discription: Clear's the Screen

Syntax: clear

Example:

```
[liveuser@localhost-live Documents]$ #clear
```

5.Who am I

Description: Shows the current logged in

user Syntax:whoami

Example:

```
[liveuser@localhost-live Documents]$ whoami
liveuser
```

6.time

Description: Shows current time

Syntax: time

Example:

```
[liveuser@localhost-live Documents]$ time

        real    0m0.000s
        user    0m0.000s
        sys     0m0.000s
[liveuser@localhost-live Documents]$ #time
```

7.uptime

Discription: Tell how long the system has been running.

Syntax: uptime

Example:

```
[liveuser@localhost-live Documents]$ uptime
 10:24:00 up  7:40,  1 user,  load average: 0.22, 3.01, 3.03
```

8.Create a file

A]

Description: Creates a new file

Syntax: cat>file_name.extension

Example:

```
[liveuser@localhost-live Documents]$ cat>SE-15-45.txt
friendship is the source of greatest pleasure.
^Z
[1]+  Stopped                 cat > SE15.txt
```

B]

Displays a file content

Description: Displays content from the

file Syntax: cat file_name.extension

Example:

```
[liveuser@localhost-live Documents]$ cat SE15.txt
friendship is the source of greatest pleasure.
```

9.tty

Description: Print the filename of the terminal

connected to standard input

Syntax:tty

Example:

```
[liveuser@localhost-live Documents]$ tty
/dev/pts/2
```

10.man

Description: an interface to the system

reference manuals

Syntax: man [man options] [[section] page ...]

Example:

```
[liveuser@localhost-live Documents]$man man
MAN(1)                  Manual pager utils
                        MAN(1) NAME
    man - an interface to the system reference manuals

SYNOPSIS
    man [man options] [[section] page ...] ...
    man -k [apropos options] regexp ...
    man -K [man options] [section] term ...
    man -f [whatis options] page ...
    man -l [man options] file ...
    man -w|-W [man options] page ...

DESCRIPTION
    man is the system's manual pager. Each page argument given to man is
    normally the name of a program, utility or function. The manual page
    associated with each of these arguments is then found and displayed. A
```

section, if provided, will direct man to look only in that section of the manual. The default action is to search in all of the available sections following a pre-defined order (see DEFAULTS), and to show only the first page found, even if page exists in several sections.

The table below shows the section numbers of the manual followed by the types of pages they contain.

1 Executable programs or shell commands
2 System calls (functions provided by the kernel)
3 Library calls (functions within program libraries)
4 Special files (usually found in /dev)

11. ping

Description: send ICMP ECHO_REQUEST to network hosts
Syntax: ping [OPTIONS] DESTINATION
Example:

```
[liveuser@localhost-live Documents]$ ping www.famt.ac.in
PING famt.ac.in (199.79.62.212) 56(84) bytes of data.
64 bytes from md-68.webhostbox.net (199.79.62.212): icmp_seq=1 ttl=45 time=300
ms
64 bytes from md-68.webhostbox.net (199.79.62.212): icmp_seq=2 ttl=45 time=320
ms
64 bytes from md-68.webhostbox.net (199.79.62.212): icmp_seq=3 ttl=45 time=597
ms
64 bytes from md-68.webhostbox.net (199.79.62.212): icmp_seq=4 ttl=45 time=557
ms
64 bytes from md-68.webhostbox.net (199.79.62.212): icmp_seq=5 ttl=45 time=517
ms
64 bytes from md-68.webhostbox.net (199.79.62.212): icmp_seq=6 ttl=45 time=804
ms
64 bytes from md-68.webhostbox.net (199.79.62.212): icmp_seq=7 ttl=45 time=447
ms
64 bytes from md-68.webhostbox.net (199.79.62.212): icmp_seq=8 ttl=45 time=338
ms
64 bytes from md-68.webhostbox.net (199.79.62.212): icmp_seq=9 ttl=45 time=357
ms
64 bytes from md-68.webhostbox.net (199.79.62.212): icmp_seq=10 ttl=45 time=318
ms
ifc64 bytes from md-68.webhostbox.net (199.79.62.212): icmp_seq=11 ttl=45
time=596 ms
on64 bytes from md-68.webhostbox.net (199.79.62.212): icmp_seq=12 ttl=45
time=306 ms
fig
64 bytes from md-68.webhostbox.net (199.79.62.212): icmp_seq=13 ttl=45 time=306
ms
64 bytes from md-68.webhostbox.net (199.79.62.212): icmp_seq=14 ttl=45 time=475
ms
64 bytes from md-68.webhostbox.net (199.79.62.212): icmp_seq=15 ttl=45 time=325
ms
64 bytes from md-68.webhostbox.net (199.79.62.212): icmp_seq=16 ttl=45 time=323
ms
```

```
^Z
[2]+  Stopped                 ping www.famt.ac.in
```

12.ifconfig

Description: configure a network interface

Syntax: ifconfig interface [aftype] options | address ...

Example:

```
[liveuser@localhost-live Documents]$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 10.0.2.15  netmask 255.255.255.0  broadcast 10.0.2.255
        inet6 fe80::7407:6322:2a7:4d03  prefixlen 64  scopeid 0x20<link>
        ether 08:00:27:fb:be:f1  txqueuelen 1000  (Ethernet)
        RX packets 102363  bytes 65937322 (62.8 MiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 77561  bytes 18275633 (17.4 MiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 988  bytes 93369 (91.1 KiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 988  bytes 93369 (91.1 KiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```

13.history

Description: history command is used to view the previously executed command.

Syntax: history

Example:

```
 1  echo "hello world"
 2  ls
 3  cat > swap.sh
 4  vi swap.sh
 5  cat  swap.sh
 6  cat > new.sh
 7  cat  new.sh
 8  vi swap.sh
 9  cat  swap.sh
10  vi swap.sh
11  cat  swap.sh
12  cat > palindrome.sh
13  cat  palindrome.sh
14  vi  palindrome.sh
15  cat  palindrome.sh
16  sh palimdrome.sh
17  sh palindrome.sh
18  vi  palindrome.sh
```

14.exit Description:exit command in Linux is used to exit the shell where it is where it is currently running.

Syntax: exit Example:

```
[liveuser@localhost-live Documents]$ #exit
```

15.Print working directory

Discription: Prints the current working directory

Syntax: pwd

Example:

```
[liveuser@localhost-live Documents]$ pwd
/home/liveuser/Documents
[liveuser@localhost-live Documents]$
```

12. Learning Outcomes:

Students will be able to identify basic UNIX general purpose commands.

13. Conclusion:

Thus we have understood general purpose commands for UNIX.

14. References:

[1] Unix, concepts and application by Sumitabha Das, McGraw-Hill

[2] Mastering Shell Scripting, Randal. K. Michael, Second Edition, Wiley Publication.