

## UNIX LAB ASSIGNMENT NO.1 Basic Commands

**AIM :** To study general purpose commands.

**ECHO :**

Displays a line of  
text  
Syntax: echo  
[OPTION] [STRING]

```
lab1003@lab1003-HP-280-G2-MT: $ echo "Pankuj"
Pankuj
lab1003@lab1003-HP-280-G2-MT: $ echo "Aditya"
Aditya
lab1003@lab1003-HP-280-G2-MT: $ echo "Harsh"
Harsh
lab1003@lab1003-HP-280-G2-MT: $ echo *
Desktop deva Documents Downloads examples.desktop Harsh Khalid l lab1 Music Pictures Public Templates try10.odt try17.odt Videos
lab1003@lab1003-HP-280-G2-MT: $ echo "My name is !@#$%^&*()123456789"
bash: !@#: event not found
lab1003@lab1003-HP-280-G2-MT: $ echo "Pankuj"^C
lab1003@lab1003-HP-280-G2-MT: $ echo "My name is $%^&*()123456789"
My name is $%^&*()123456789
```

**CLEAR :**

clears the terminal  
screen  
Syntax: clear

```
lab1003@lab1003-HP-280-G2-MT: ~$
```

**EXIT :**

terminates a script  
Syntax: clear

```
lab1003@lab1003-HP-280-G2-MT:~$ date
Fri Jan 19 16:15:19 IST 2024
lab1003@lab1003-HP-280-G2-MT:~$
```

**DATE :**  
print or set the system date  
and time Syntax: date  
[OPTION]... [+FORMAT]

```
lab1003@lab1003-HP-280-G2-MT:~$ date
Fri Jan 19 16:15:19 IST 2024
lab1003@lab1003-HP-280-G2-MT:~$
```

**TIME :**  
measure the time required to run a program  
Syntax: time [option] [command]

```
lab1003@lab1003-HP-280-G2-MT:~$ time ls
Desktop  Documents  examples.desktop  Khalid  lab1  Pictures  Templates  try17.odt
deva     Downloads  Harsh            l       Music  Public    try10.odt  Videos

real    0m0.004s
user    0m0.004s
sys     0m0.000s
lab1003@lab1003-HP-280-G2-MT:~$
```

**UPTIME :**  
tell how long the system has been running  
Synatx: uptime

```
lab1003@lab1003-HP-280-G2-MT:~$ uptime
16:07:14 up 1:07, 1 user, load average: 0.34, 0.26, 0.26
lab1003@lab1003-HP-280-G2-MT:~$
```

CAL :

display a calendar

Syntax: cal [-m jy] [[month] year]

```
lab1003@lab1003-HP-280-G2-MT:~$ 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

lab1003@lab1003-HP-280-G2-MT:~$
```

TTY :

print the file name of the terminal connected to standard input

Syntax: tty [OPTION]

```
lab1003@lab1003-HP-280-G2-MT:~$ tty
/dev/pts/0
lab1003@lab1003-HP-280-G2-MT:~$
```

MAN :

an interface to the online reference manuals

Syntax: man [OPTION] [KEYWORD(s)]

```
lab1003@lab1003-HP-280-G2-MT:~$ man  
What manual page do you want?  
lab1003@lab1003-HP-280-G2-MT:~$
```

**WHICH :**

shows full path of shell commands

Syntax: `which [OPTION] [filename]`

```
lab1003@lab1003-HP-280-G2-MT:~$ which  
lab1003@lab1003-HP-280-G2-MT:~$ which cal  
/usr/bin/cal
```

**HISTORY :**

view the previously executed commands

## Syntax: history

```
lab1003@lab1003-HP-280-G2-MT:~$ id
uid=1000(lab1003) gid=1000(lab1003) groups=1000(lab1003),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),116(lpadmin),126(sambashare)
lab1003@lab1003-HP-280-G2-MT:~$
```

**ID :**

**id:** print real and effective user and group Ids

**Syntax:** id [OPTION] use

```
lab1003@lab1003-HP-280-G2-MT:~$ history
1  cd desktop
2  dir
3  ls
4  vi first
5  vi demo
6  whoami
7  who
8  pwd
9  cal
10 user
11 w
12 mkdir deva
13 dir
```

```
14 rmdir deva
15 dir
16 pwd
17 tty
18 echo deva
19 man f ls
20 clear
21 date
22 time
23 uptime
24 cat
25 cat trial
26 vi deva
27 cat deva
28 mkdir deva
29 dir
30 cat deva
31 which
32 history
33 id
34 pwd
35 ping
```

**PWD :**

**print name of working directory**

**Syntax: pwd [OPTION]**

```
lab1003@lab1003-HP-280-G2-MT:~$ pwd
/home/lab1003
lab1003@lab1003-HP-280-G2-MT:~$
```

**WHOAMI**

**whoami: print effective**

**userid Syntax: whoami**

**[OPTION]**

```
lab1003@lab1003-HP-280-G2-MT:~$ whoami
lab1003
lab1003@lab1003-HP-280-G2-MT:~$
```

**PING :**

**send ICMP ECHO\_REQUEST to network host**

**Syntax: ping**

```
lab1003@lab1003-HP-280-G2-MT:~$ ping
Usage: ping [-aAbBdDfhLnOqrRUvV64] [-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
Usage: ping -6 [-aAbBdDfhLnOqrRUvV] [-c count] [-i interval] [-I interface]
          [-l preload] [-m mark] [-M pmtudisc_option]
          [-N nodeinfo_option] [-p pattern] [-Q tclass] [-s packetsize]
          [-S sndbuf] [-t ttl] [-T timestamp_option] [-w deadline]
          [-W timeout] destination
lab1003@lab1003-HP-280-G2-MT:~$
```

**PR :**

The pr command output. If you specify the - (minus sign) parameter instead of the File parameter, or if you specify neither, the pr command reads standard input.

Syntax: pr

```
lab1003@lab1003-HP-280-G2-MT:~$ pr
Creating a file

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Creating a file
File created
File created
^C
```

**LPR :**

Each printer job consists of copies of each file you specify. The spool area is managed by the line printer spooler, lpsched.

Syntax: lpr 1

**MAN :**

It provides a detailed view of the command which includes NAME, SYNOPSIS, DESCRIPTION, OPTIONS, EXIT STATUS, RETURN

VALUES, ERRORS, FILES, VERSIONS, EXAMPLES,  
AUTHORS Syntax: man

```
lab1003@lab1003-HP-280-G2-MT:~$ man  
What manual page do you want?  
lab1003@lab1003-HP-280-G2-MT:~$ █
```