

Assignment No.1

Basic UNIX Commands/General Purpose Utility Commands

- **cal**

To display a calendar.

A single parameter specifies the 4 digit year (1 - 9999) to be displayed. Two parameters denote the Month (1 - 12) and Year (1 - 9999). If arguments are not specified, the current month is displayed. A year starts on 01 Jan.

Tag	Description
-m	Display monday as the first day of the week.
-j	Display julian dates (days one-based, numbered from January 1).
-y	Display a calendar for the current year.

EXAMPLES:

To display current month's calendar

```
$ cal
    April 2016
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
```

To display feb 2015 calendar

```
$ cal 2 2015
    February 2015
```

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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

- **date**

Use to display system date.

Example:

1. *\$date*

Tue Jul 05 09:58:19 IST 2016

2. *\$date +%m*

07

3. *\$date +%h*

Jul

4. *\$date +"%h %m"*

Jul 05

Exercise: Explore other options available with date

- **echo**

Use to display a message

EXAMPLE:

1. *\$echo "hello good morning"*

hello good morning

2. *\$echo "hello Good evening"*

Hello Good evening

- **bc**

Use as a calculator

Example:

1. *\$bc*

12 + 5

17

2. *\$bc*
*12 * 12*
144

3. *\$bc*
9/5
1

4. *\$bc*
Scale=2
17/7
2.42

- **script**

Use to record the session

Syntax:

Script [filename]

EXAMPLE:

1. *\$script file1*
Script started, file is typescript
2. *\$exit*
Script is done, file is typescript

- **passwd**

Used to change the password

EXAMPLE:

```
$ passwd
passwd: Changing password for kumar
Enter login password: *****
New password: *****
Re-enter new password: *****
passwd (SYSTEM): passwd successfully changed for kumar
```

Asks for old password

- **who**

Give listing of users.

EXAMPLE:

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```
$ who
root      console    Aug  1 07:51    (:0)
kumar     pts/10        Aug  1 07:56    (pc123.heavens.com)
sharma    pts/6         Aug  1 02:10    (pc125.heavens.com)
project   pts/8         Aug  1 02:16    (pc125.heavens.com)
sachin    pts/14        Aug  1 08:36    (mercury.heavens.com)
```

To know the current user

```
$ who am i
kumar     pts/10        Aug  1 07:56    (pc123.heavens.com)
```

- **uname**
Simply displays name of the operating system

EXAMPLE:

```
$ uname
SunOS
```

Linux shows Linux

```
$ uname -r
5.8
```

This is SunOS 5.8

- **tty**
Give details about terminal
Needs no argument value

EXAMPLE:

```
$ tty
/dev/pts/10
```

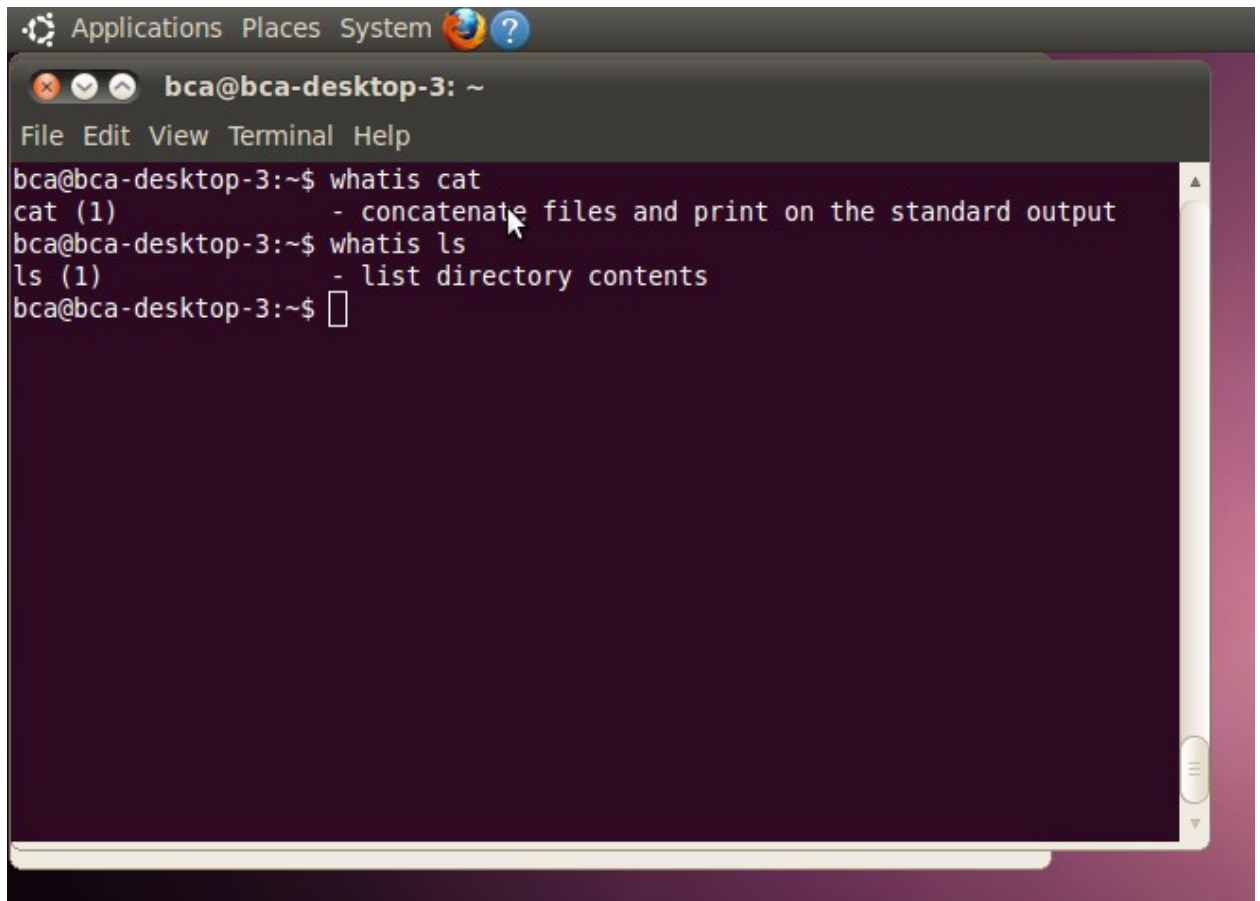
- **clear**
to clear terminal window
- **man command**
Provides help on command
Eg. man cat
- **whatis:**
Displays use of command

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Same as man -f command

Eg.

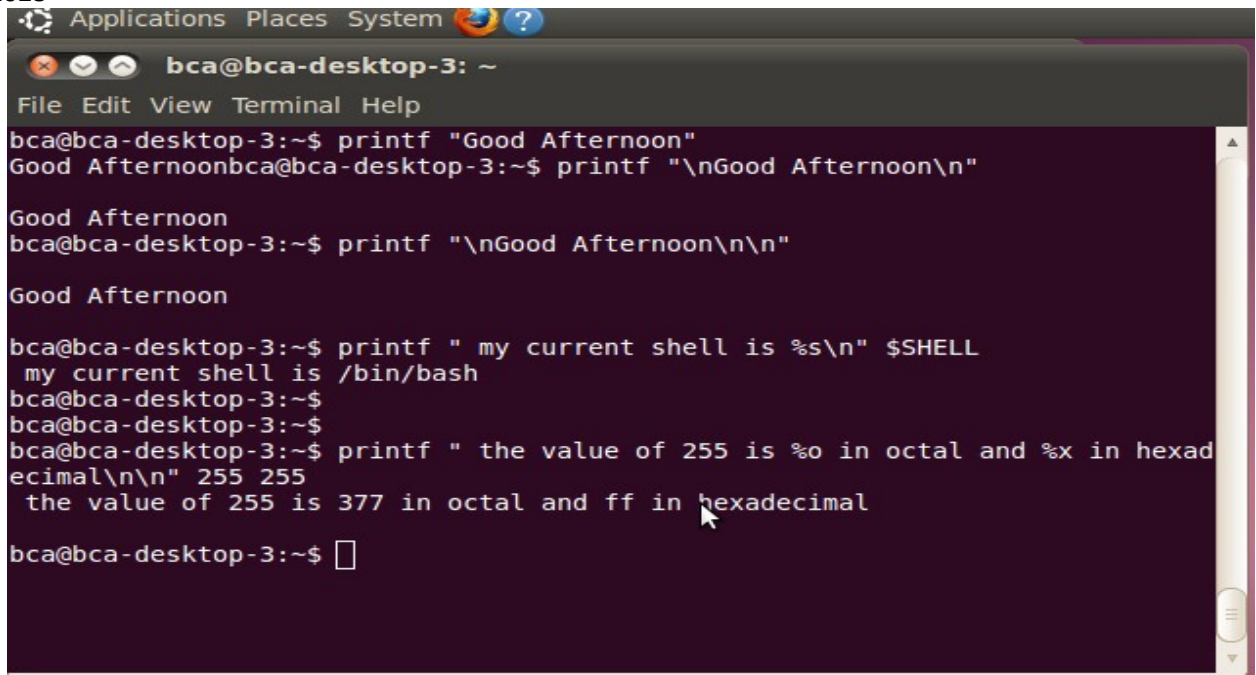
- 1) whatis cat**
- 2) whatis cp**



The image shows a terminal window titled 'bca@bca-desktop-3: ~'. The window has a menu bar with 'File', 'Edit', 'View', 'Terminal', and 'Help'. The terminal output shows the following commands and their results:

```
bca@bca-desktop-3:~$ whatis cat
cat (1)          - concatenate files and print on the standard output
bca@bca-desktop-3:~$ whatis ls
ls (1)           - list directory contents
bca@bca-desktop-3:~$
```

- **printf**
Alternative of echo
Available only with Bash Shell



```

Applications Places System ?
bca@bca-desktop-3: ~
File Edit View Terminal Help
bca@bca-desktop-3:~$ printf "Good Afternoon"
Good Afternoonbca@bca-desktop-3:~$ printf "\nGood Afternoon\n"

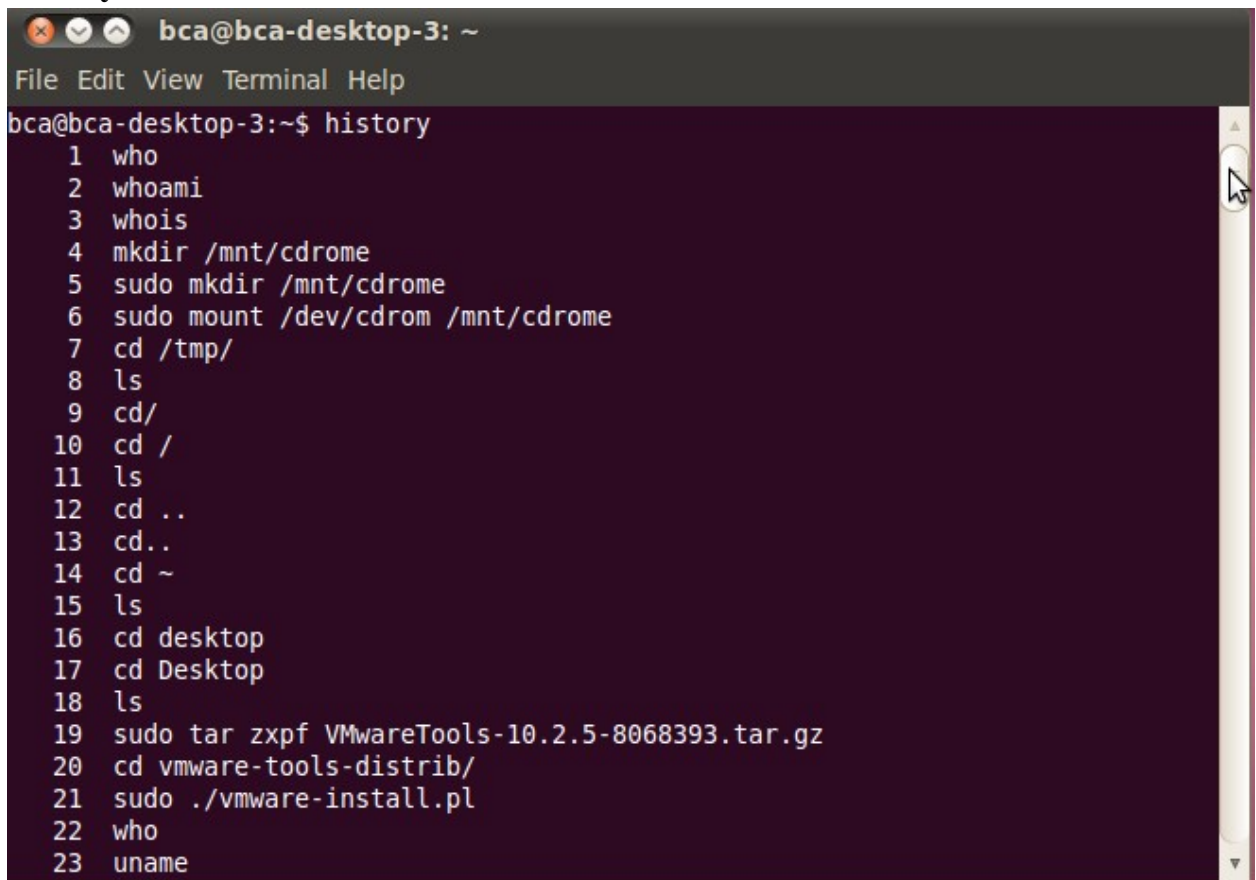
Good Afternoon
bca@bca-desktop-3:~$ printf "\nGood Afternoon\n\n"

Good Afternoon

bca@bca-desktop-3:~$ printf " my current shell is %s\n" $SHELL
 my current shell is /bin/bash
bca@bca-desktop-3:~$
bca@bca-desktop-3:~$
bca@bca-desktop-3:~$ printf " the value of 255 is %o in octal and %x in hexadecimal\n\n" 255 255
 the value of 255 is 377 in octal and ff in hexadecimal
bca@bca-desktop-3:~$ 

```

- **history**



```

bca@bca-desktop-3: ~
File Edit View Terminal Help
bca@bca-desktop-3:~$ history
 1  who
 2  whoami
 3  whois
 4  mkdir /mnt/cdrome
 5  sudo mkdir /mnt/cdrome
 6  sudo mount /dev/cdrom /mnt/cdrome
 7  cd /tmp/
 8  ls
 9  cd/
10  cd /
11  ls
12  cd ..
13  cd..
14  cd ~
15  ls
16  cd desktop
17  cd Desktop
18  ls
19  sudo tar xzpf VMwareTools-10.2.5-8068393.tar.gz
20  cd vmware-tools-distrib/
21  sudo ./vmware-install.pl
22  who
23  uname

```

```

bca@bca-desktop-3: ~
File Edit View Terminal Help
375  whatis cat
376  man -f cat
377  clear
378  printf "fhudfdf"
379  printf fhudfdf
380  clear
381  printf "the binary value 8 is %b" 8
382  printf "the binary value 8 is %b" 16
383  clear
384  history
385  history 10
386  exit
387  history
388  histsize=1200
389  histsize=5
390  history
bca@bca-desktop-3:~$ HISTSIZE=5
bca@bca-desktop-3:~$ history
387  histsize=1200
388  histsize=5
389  history
390  HISTSIZE=5
391  history
bca@bca-desktop-3:~$

```

- **stty**
displays and setting terminal characteristics

```

bca@bca-desktop-3: ~
File Edit View Terminal Help
bca@bca-desktop-3:~$ stty -a
speed 38400 baud; rows 24; columns 80; line = 0;
intr = ^C; quit = ^\; erase = ^?; kill = ^U; eof = ^D; eol = M-^?; eol2 = M-^?;
swtch = M-^?; start = ^Q; stop = ^S; susp = ^Z; rprnt = ^R; werase = ^W;
lnext = ^V; flush = ^O; min = 1; time = 0;
-parenb -parodd cs8 hupcl -cstopb cread -clocal -crtscts
-ignbrk brkint -ignpar -parmrk -inpck -istrip -inlcr -igncr icrnl ixon -ixoff
-iuclc ixany imaxbel iutf8
opost -olcuc -ocrnl onlcr -onocr -onlret -ofill -ofdel nl0 cr0 tab0 bs0 vt0 ff0
isig icanon iexten echo echoe echok -echonl -noflsh -xcase -tostop -echoprt
echoctl echoke
bca@bca-desktop-3:~$ stty -echo
bca@bca-desktop-3:~$          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
bca@bca-desktop-3:~$ Fri Jul  7 12:00:18 IST 2023
bca@bca-desktop-3:~$ bca@bca-desktop-3:~$ stty: invalid argument '-echodate'
Try 'stty --help' for more information.
bca@bca-desktop-3:~$ bca@bca-desktop-3:~$ cat

```