Assignment No.1

Basic UNIX Commands/General Purposse 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
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: *******                    Asks for old password
New password: ********
Re-enter new password: ********
passwd (SYSTEM): passwd successfully changed for kumar
```

- **who**

  Give listing of users.

  EXAMPLE:

```
$ 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

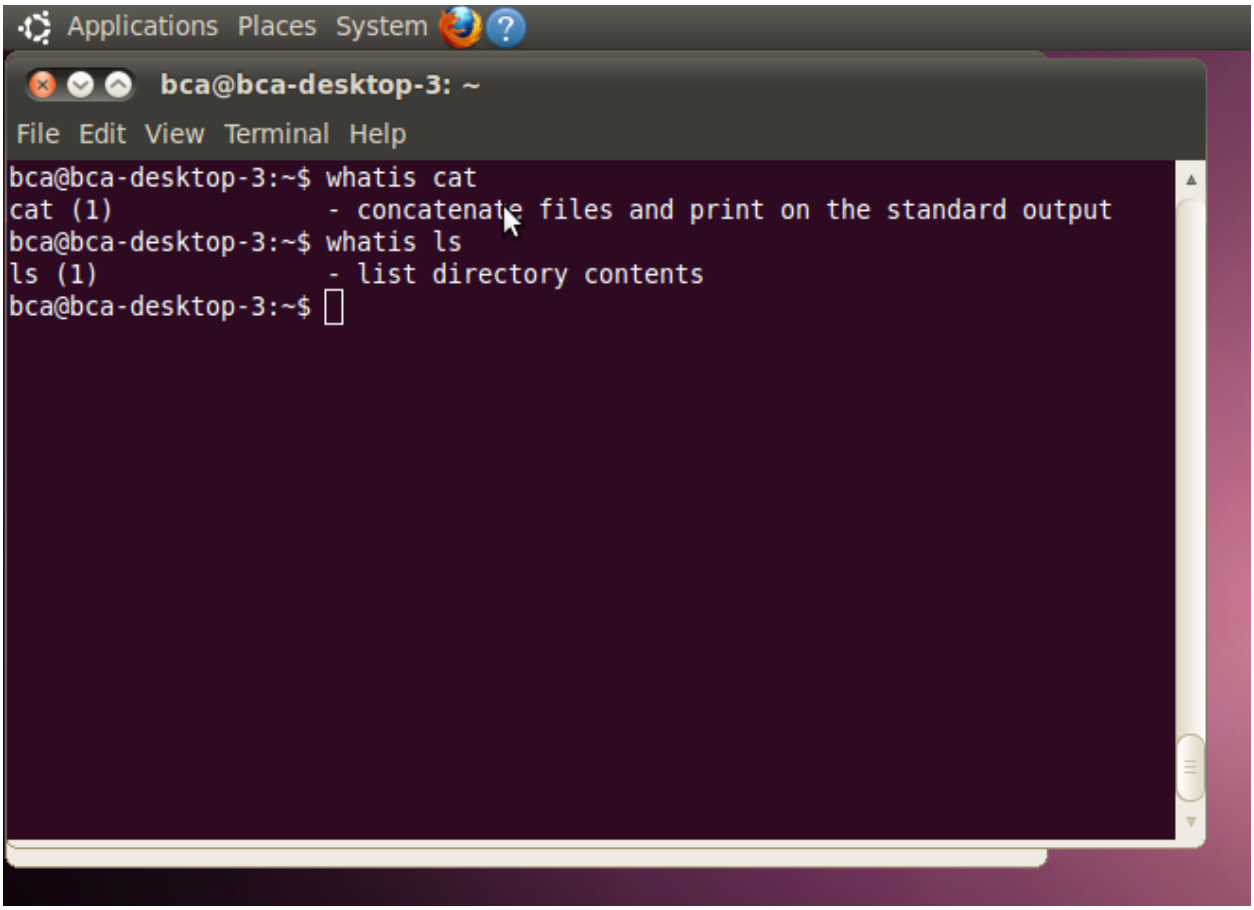
- **man command**
  Provides help on command
  Eg. man cat

- **whatis:**
  Displays use of command

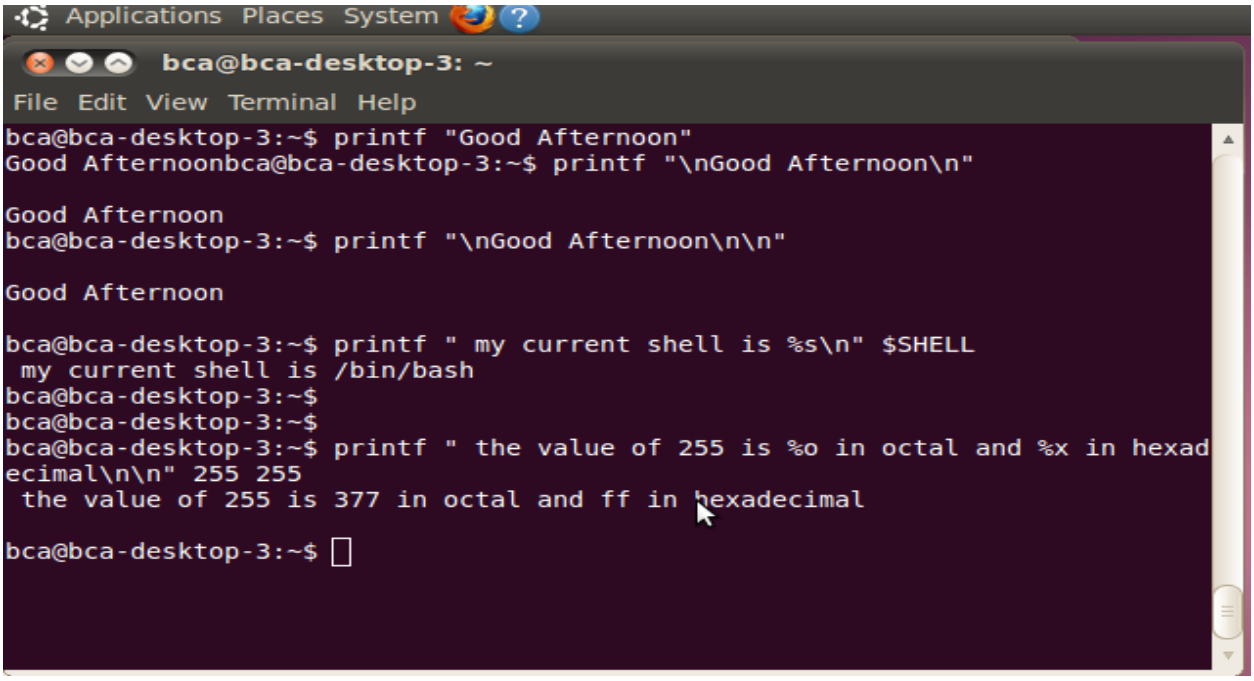
Same as man –f command

Eg.

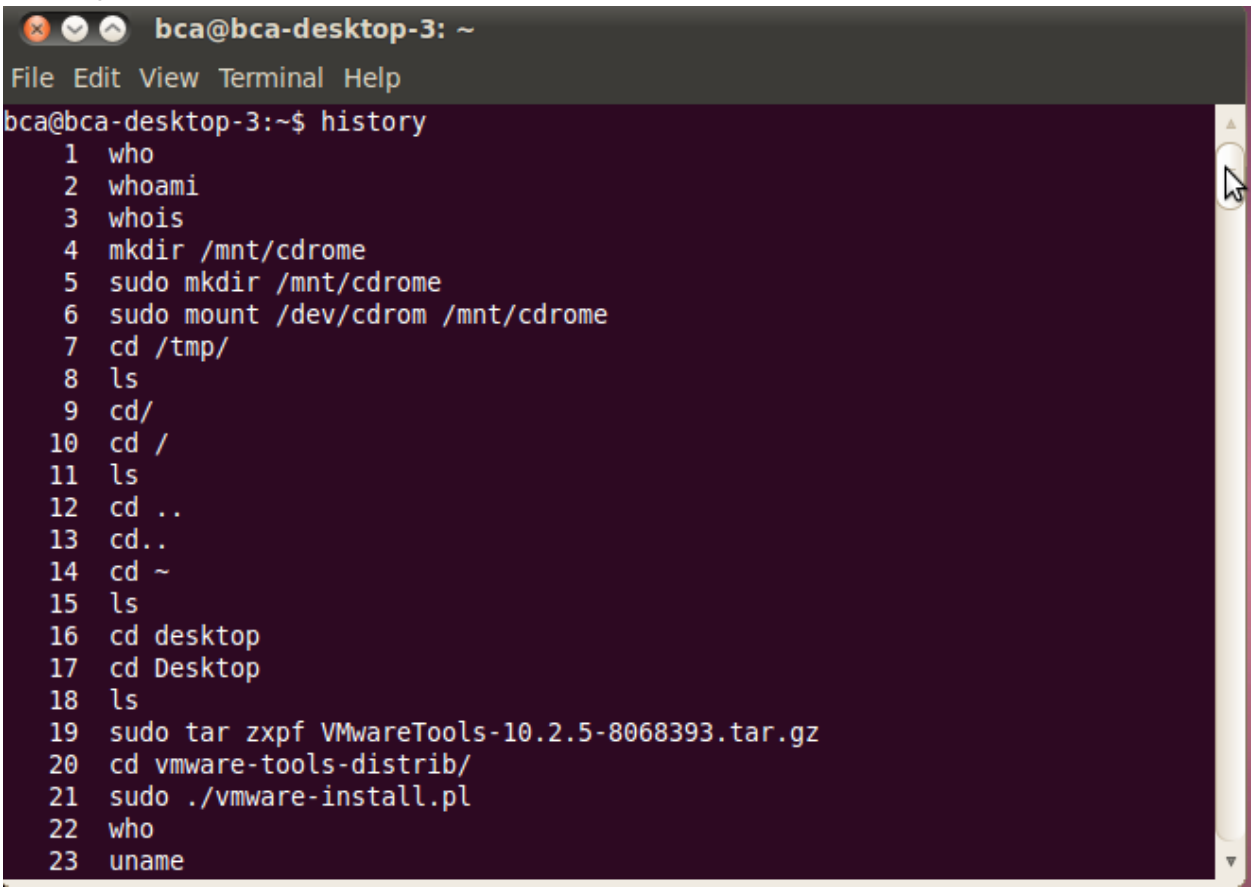
1) **whatis cat**
2) **whatis cp**

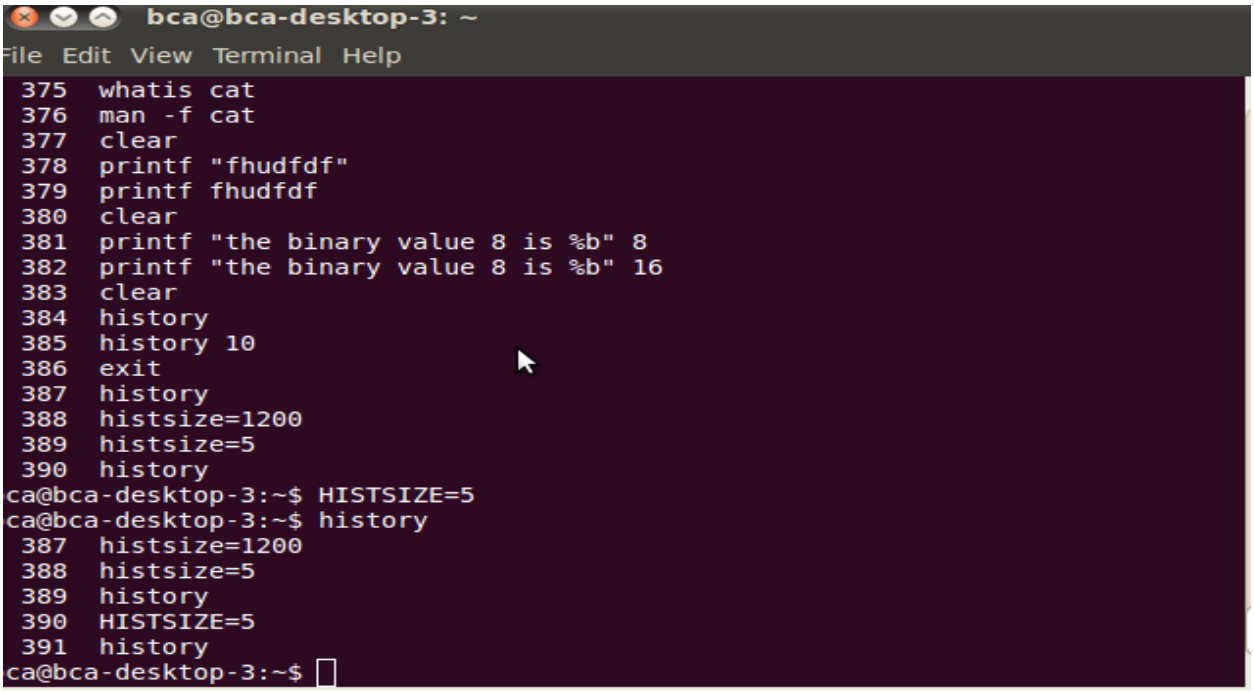
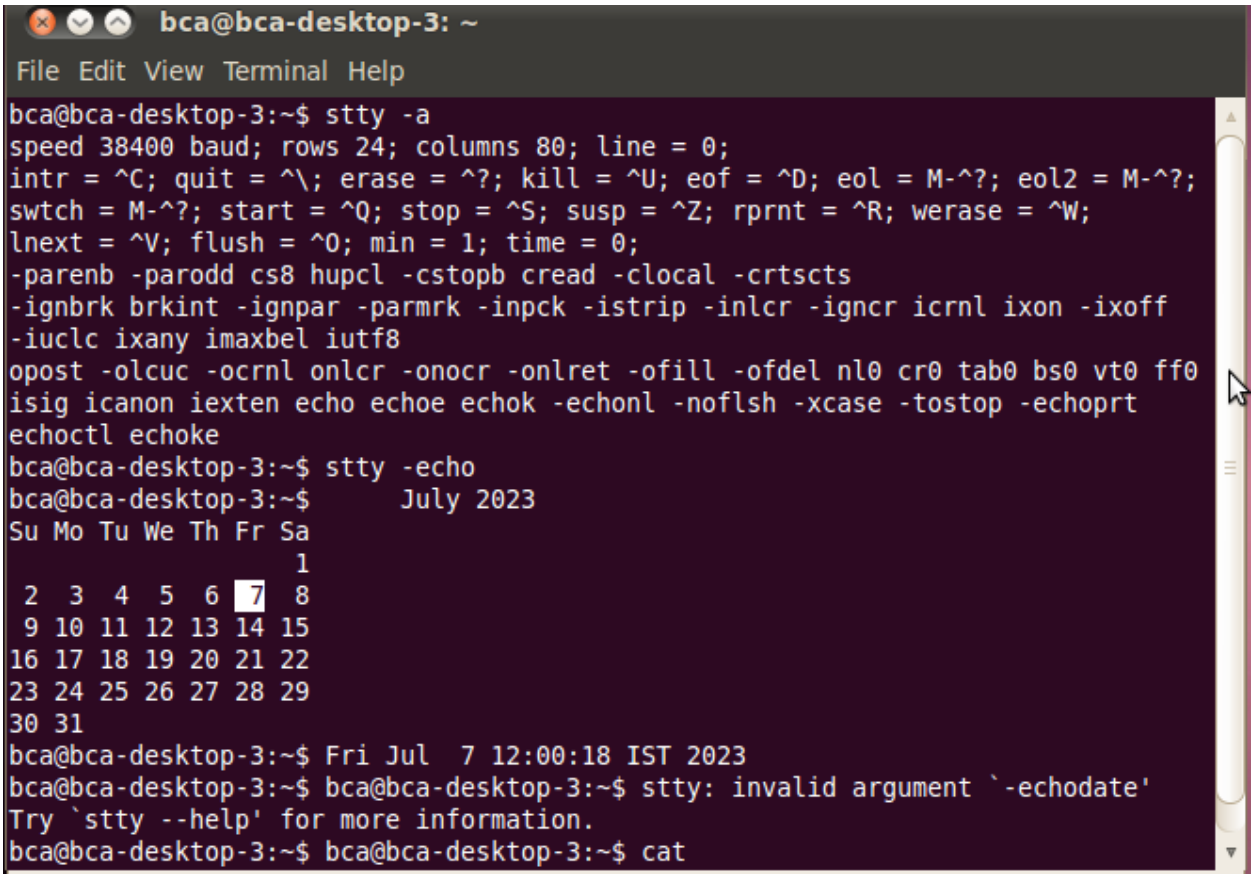


- **printf**
  Alternative of echo
  Available only with Bash Shell


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 hexad
ecimal\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 zxpf VMwareTools-10.2.5-8068393.tar.gz
20 cd vmware-tools-distrib/
21 sudo ./vmware-install.pl
22 who
23 uname



- **stty**
  displays and setting terminal characteristics