# **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).
-у	Display a calendar for the current year.

## **EXAMPLES:**

## To display current month's calendar

## 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: \*\*\*\*\*\*

New password: \*\*\*\*\*\*

Re-enter new password: \*\*\*\*\*\*

passwd (SYSTEM): passwd successfully changed for kumar

## • who

Give listing of users.

## **EXAMPLE:**

Asks for old password

\$ 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 (2) (?)
 🔞 🤡 🚫 🛮 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
      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
```

```
🔕 🛇 🚫 🛮 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
      printf "the binary value 8 is %b" 16
 382
 383
     clear
384 history
385 history 10
386
     exit
 387
      history
388 histsize=1200
389 histsize=5
390 history
ca@bca-desktop-3:~$ HISTSIZE=5
ca@bca-desktop-3:~$ history
387 histsize=1200
388 histsize=5
389 history
390 HISTSIZE=5
391 history
ca@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 = ^0; 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
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
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
```