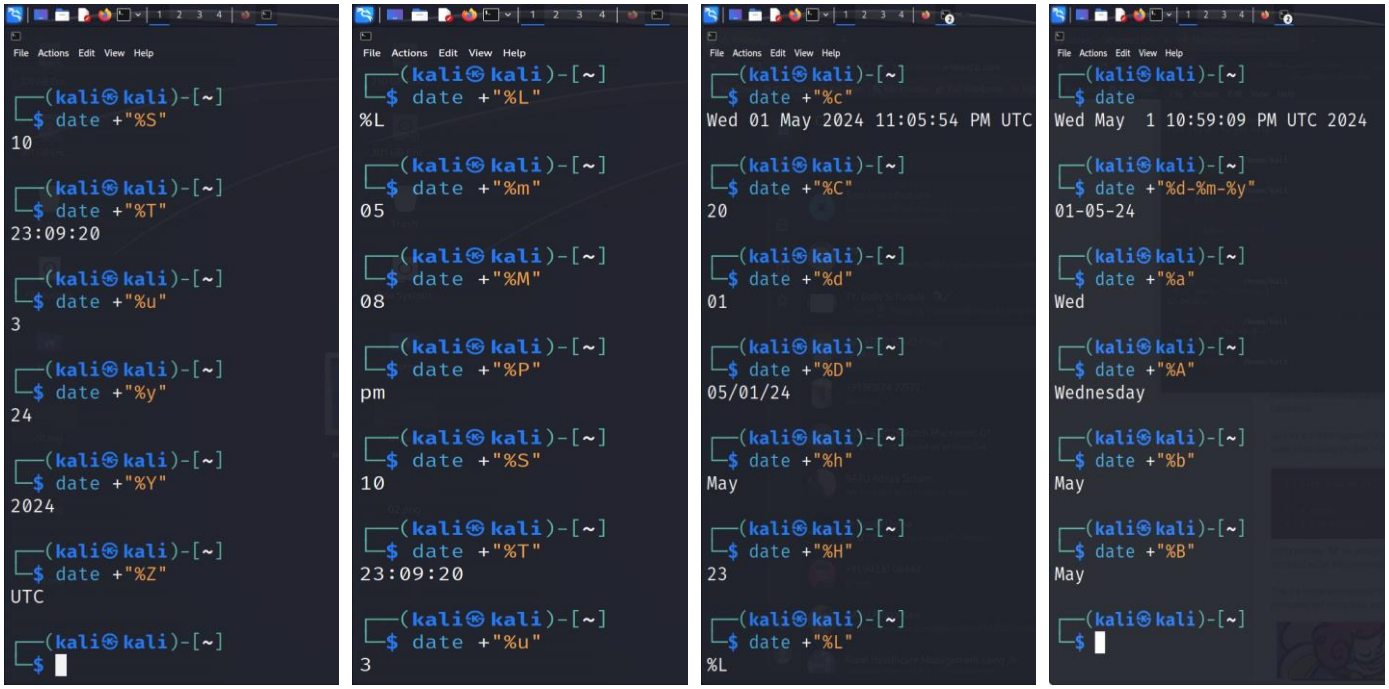
Experiment No.1

Aim: To study of different Unix Commands

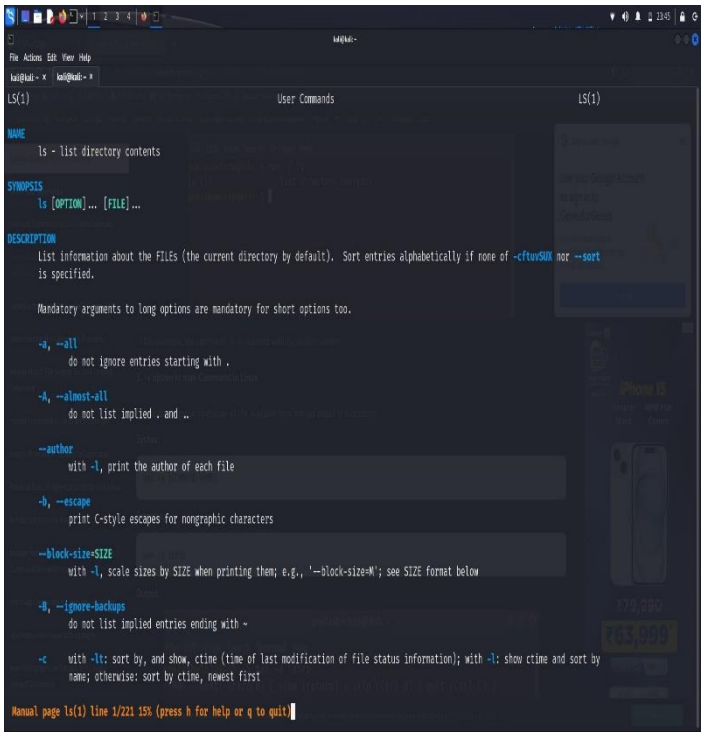
Basics commands:

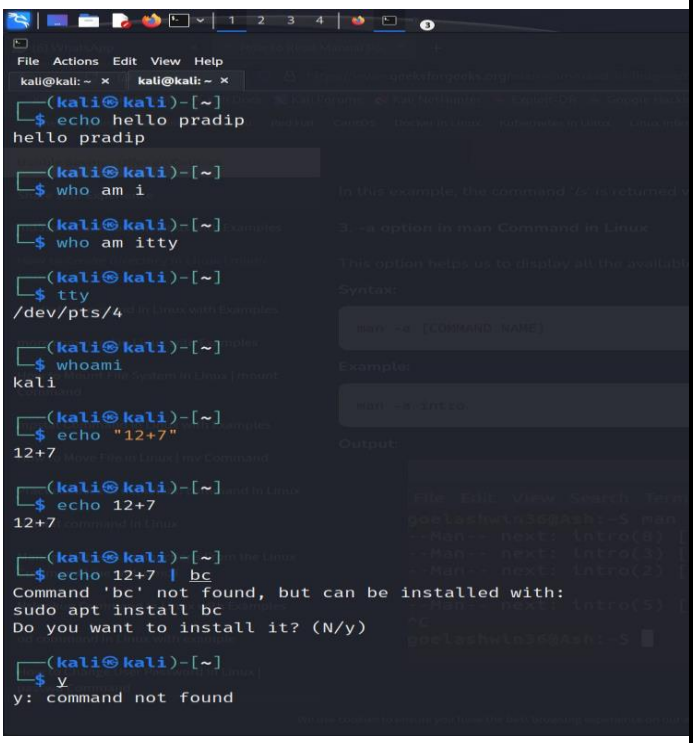
$date:

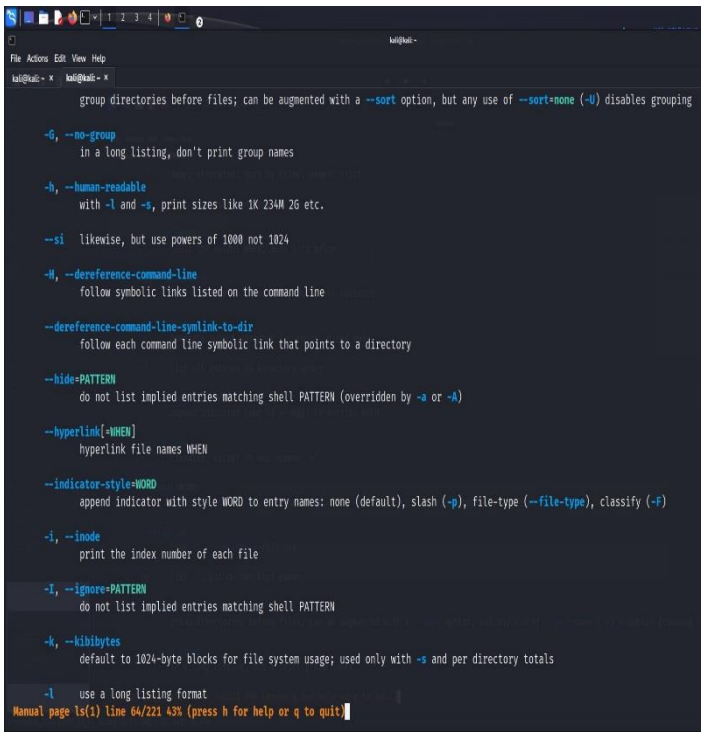


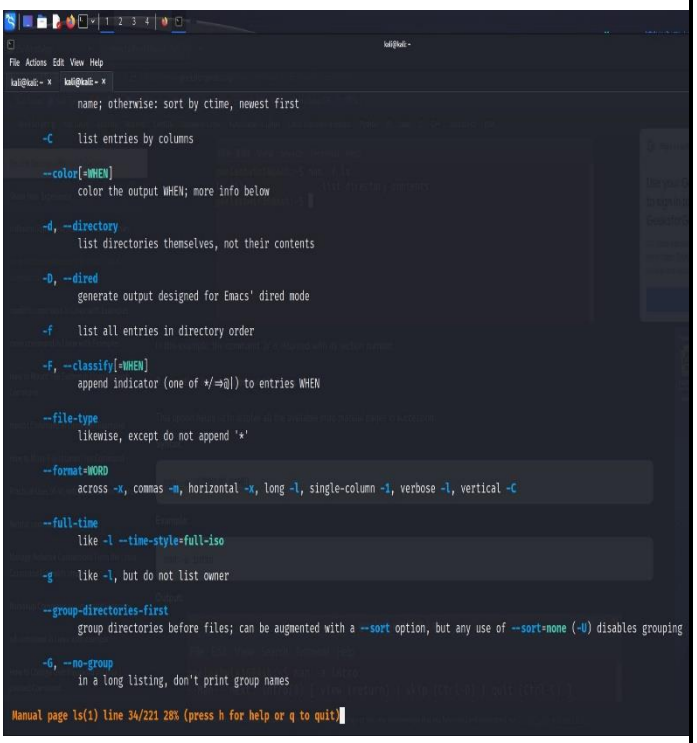
Cd **mkdir**

Rmdir


LS(1) User Commands LS(1)
NAME
ls - list directory contents
SYNOPSIS
ls [OPTION]... [FILE]...
DESCRIPTION
List information about the FILEs (the current directory by default). Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.
Mandatory arguments to long options are mandatory for short options too.
-a, --all
do not ignore entries starting with .
-A, --almost-all
do not list implied . and ..
--author
with -l, print the author of each file
-b, --escape
print C-style escapes for nongraphic characters
--block-size=SIZE
with -l, scale sizes by SIZE when printing them; e.g., '--block-size=M'; see SIZE format below
-B, --ignore-backups
do not list implied entries ending with ~
-c with -lt: sort by, and show, ctime (time of last modification of file status information); with -l: show ctime and sort by name; otherwise: sort by ctime, newest first
Manual page ls(1) line 1/221 15% (press h for help or q to quit)


File Actions Edit View Help
kali@kali: ~
$ echo hello pradip
hello pradip
$ who am i
$ who am itty
$ tty
/dev/pts/4
$ whoami
kali
$ echo "12+7"
12+7
$ echo 12+7
12+7
$ echo 12+7 | bc
Command 'bc' not found, but can be installed with:
sudo apt install bc
Do you want to install it? (N/y)
$ y
y: command not found


group directories before files; can be augmented with a --sort option, but any use of --sort=none (-U) disables grouping
-G, --no-group
in a long listing, don't print group names
-h, --human-readable
with -l and -s, print sizes like 1K 234M 2G etc.
--si likewise, but use powers of 1000 not 1024
-H, --dereference-command-line
follow symbolic links listed on the command line
--dereference-command-line-symlink-to-dir
follow each command line symbolic link that points to a directory
--hide=PATTERN
do not list implied entries matching shell PATTERN (overridden by -a or -A)
--hyperlink[=WHEN]
hyperlink file names WHEN
--indicator-style=WORD
append indicator with style WORD to entry names: none (default), slash (-p), file-type (--file-type), classify (-F)
-i, --inode
print the index number of each file
-I, --ignore=PATTERN
do not list implied entries matching shell PATTERN
-k, --kibibytes
default to 1024-byte blocks for file system usage; used only with -s and per directory totals
-l use a long listing format
Manual page ls(1) line 64/221 43% (press h for help or q to quit)


name; otherwise: sort by ctime, newest first
-C list entries by columns
--color[=WHEN]
color the output WHEN; more info below
-d, --directory
list directories themselves, not their contents
-D, --dired
generate output designed for Emacs' dired mode
-f list all entries in directory order
-F, --classify[=WHEN]
append indicator (one of */=@|) to entries WHEN
--file-type
likewise, except do not append '*'
--format=WORD
across -x, commas -m, horizontal -x, long -l, single-column -1, verbose -l, vertical -C
--full-time
like -l --time-style=full-iso
-g like -l, but do not list owner
--group-directories-first
group directories before files; can be augmented with a --sort option, but any use of --sort=none (-U) disables grouping
-G, --no-group
in a long listing, don't print group names
Manual page ls(1) line 34/221 28% (press h for help or q to quit)

```
[ec2-user@ip-172-31-9-216 ~]$ cal
     May 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

[ec2-user@ip-172-31-9-216 ~]$ echo "hello world"
hello world
[ec2-user@ip-172-31-9-216 ~]$ banner aditya
-bash: banner: command not found
[ec2-user@ip-172-31-9-216 ~]$ who
ec2-user pts/0        2024-05-01 18:47 (203.109.35.40)
[ec2-user@ip-172-31-9-216 ~]$ who am i
ec2-user pts/0        2024-05-01 18:47 (203.109.35.40)
[ec2-user@ip-172-31-9-216 ~]$ tty
/dev/pts/0
[ec2-user@ip-172-31-9-216 ~]$ man clear
```

```
[ec2-user@ip-172-31-9-216 ~]$ ls
[ec2-user@ip-172-31-9-216 ~]$ ls-a
-bash: ls-a: command not found
[ec2-user@ip-172-31-9-216 ~]$ touch file1
[ec2-user@ip-172-31-9-216 ~]$ ls
file1
[ec2-user@ip-172-31-9-216 ~]$  ls -a
. .. .bash_logout .bash_profile .bashrc .lesshst .ssh file1
[ec2-user@ip-172-31-9-216 ~]$ ls -c
file1
[ec2-user@ip-172-31-9-216 ~]$ ls -d
.
[ec2-user@ip-172-31-9-216 ~]$ ls -m
file1
[ec2-user@ip-172-31-9-216 ~]$ ls -p
file1
[ec2-user@ip-172-31-9-216 ~]$ ls-r
-bash: ls-r: command not found
[ec2-user@ip-172-31-9-216 ~]$ ls -r
file1
[ec2-user@ip-172-31-9-216 ~]$ ls -f
. .. .bash_logout .bash_profile .bashrc .ssh .lesshst file1
[ec2-user@ip-172-31-9-216 ~]$ ls -x
```

```
clear(1)                    General Commands Manual                    clear(1)

NAME
       clear - clear the terminal screen

SYNOPSIS
       clear [-Ttype] [-V] [-x]

DESCRIPTION
       clear  clears your screen if this is possible, including its scrollback buffer (if the extended "E3" capability is defined).  clear looks in the environment
       for the terminal type given by the environment variable TERM, and then in the terminfo database to determine how to clear the screen.

       clear writes to the standard output.  You can redirect the standard output to a file (which prevents clear from actually clearing the screen), and later cat
       the file to the screen, clearing it at that point.

OPTIONS
       -T type
            indicates the type of terminal.  Normally this option is unnecessary, because the default is taken from the environment variable TERM.  If -T is speci
            fied, then the shell variables LINES and COLUMNS will also be ignored.

       -V   reports the version of ncurses which was used in this program, and exits.  The options are as follows:

       -x   do not attempt to clear the terminal's scrollback buffer using the extended "E3" capability.
```

Directory Related Commands:

```
[ec2-user@ip-172-31-9-216 ~]$ pwd
/home/ec2-user
[ec2-user@ip-172-31-9-216 ~]$ mkdir osexperiment1
[ec2-user@ip-172-31-9-216 ~]$ ls
file1  osexperiment1
[ec2-user@ip-172-31-9-216 ~]$ cd osexperiment1/
[ec2-user@ip-172-31-9-216 osexperiment1]$ cd..
-bash: cd..: command not found
[ec2-user@ip-172-31-9-216 osexperiment1]$ cd ..
[ec2-user@ip-172-31-9-216 ~]$ rmdir osexperiment1
[ec2-user@ip-172-31-9-216 ~]$ ls
file1
```

File Related Commands:

```
[ec2-user@ip-172-31-9-216 ~]$ cat >file1
hey students welcome to dbatu operatin
system
lab
third year it
^C
[ec2-user@ip-172-31-9-216 ~]$ cat file1
hey students welcome to dbatu operatin
system
lab
third year it
[ec2-user@ip-172-31-9-216 ~]$ cat file1 >> file2
[ec2-user@ip-172-31-9-216 ~]$ cat file2
hey students welcome to dbatu operatin
system
lab
third year it
[ec2-user@ip-172-31-9-216 ~]$ sort file1
hey students welcome to dbatu operatin
lab
system
third year it
[ec2-user@ip-172-31-9-216 ~]$ cp file2 file3
[ec2-user@ip-172-31-9-216 ~]$ cat file3
hey students welcome to dbatu operatin
system
lab
third year it
```

```
[ec2-user@ip-172-31-9-216 ~]$ mv file1 file3
[ec2-user@ip-172-31-9-216 ~]$ ls
file2  file3
[ec2-user@ip-172-31-9-216 ~]$ cat file3
hey students welcome to dbatu operatin
system
lab
third year it
[ec2-user@ip-172-31-9-216 ~]$ ls
file2  file3
[ec2-user@ip-172-31-9-216 ~]$ rm file3
[ec2-user@ip-172-31-9-216 ~]$ ls
file2
[ec2-user@ip-172-31-9-216 ~]$ wc file2 -c
64 file2
[ec2-user@ip-172-31-9-216 ~]$ wc file2 -l
4 file2
[ec2-user@ip-172-31-9-216 ~]$ wc file2 -w
11 file2
```

Filters and pipe Command

```
[ec2-user@ip-172-31-9-216 ~]$ head file3
rom Wikipedia, the free encyclopedia
Dr. Babasaheb Ambedkar Technological University
Logo of DBATU
Motto in English        Development through Technology
Type    Public
Established     1989 (35 years ago)
Chancellor      Ramesh Bais
Vice-Chancellor Karbhari V. Kale
Administrative staff    146
Students        4000
[ec2-user@ip-172-31-9-216 ~]$ tail file2
hey students welcome to dbatu operatin
system
lab
third year it
[ec2-user@ip-172-31-9-216 ~]$ more file2
hey students welcome to dbatu operatin
system
lab
third year it
[ec2-user@ip-172-31-9-216 ~]$ sort file2
hey students welcome to dbatu operatin
lab
system
third year it
[ec2-user@ip-172-31-9-216 ~]$ cat file2 | tr [a-z] [A-Z]
HEY STUDENTS WELCOME TO DBATU OPERATIN
SYSTEM
LAB
THIRD YEAR IT
[ec2-user@ip-172-31-9-216 ~]$
```

Practical Performance (4)	Write up and oral (4)	Attendance (2)	Total (10)