# MANJARA CHARLTABLE TRUST

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# **EXPERIMENT NO. 2**

# **BASIC COMMANDS IN UNIX**

**AIM:** Study of UNIX general purpose utility commands.

**REQUIREMENT:** Computer machine, UBUNTU OS

**THEORY:** UNIX commands can often be grouped together to make more powerful capabilities known as I/O redirection and piping. There are certain commands that are essential to be known to get started with UNIX. Some of the commands are:

- **1. cd:** Changes the current working directory
- 2. mkdir: Creates a new directory
- **3. rmdir:** Removes the directory
- **4. pwd:** Writes the full pathname of the current working directory to the standard output.
- **5. touch:** Creates a new file
- **6. gedit:** Opens the default GUI text editor in the Ubuntu OS
- **7. cat:** Creates single or multiple files, concatenates files and redirects output in terminal or files.
- **8. mv:** Moves files and directories
- **9. rm:** By default, it does not remove directories. The –recursive command is used to remove each listed directory.
- **10. ls:** Lists the directory contents of files and directories
- **11. cp:** Copies the source file to the destination file
- 12. ps: Provides information about the currently processes
- **13. man:** It is the interface used to view system's reference manuals
- **14. who:** Displays the list of users who are currently logged into the computer
- **15. whoami:** Prints the user name associated with the current effective user id
- **16. echo:** Outputs the strings being passed as arguments
- **17. date:** Displays the current date and time
- **18. time:** Determines the duration of execution of a particular command
- **19. cal:** Prints an ASCII calendar of the given month or year
- **20. history:** Stores the history of commands entered, which can be used to repeat the commands
- **21. head:** Outputs the first part of files given to it via standard input
- **22. tail:** Outputs the last part of files given to it via standard output
- **23. more:** Enables to view the text files or other output in a scrollable manner

- **24. less:** Enables to view files instead of opening the file
- **25. passwd:** Changes the password of a user account
- **26. chmod:** Changes the file mode bits of each given file according to mode, so may change the access permissions to file system objects
- **27. chown:** Changes the owner of system files, directories
- **28. bc:** It is used as used to perform arithmetic calculations
- **29. finger:** May be used to look up users on a remote machine
- **30. clear:** Clears the screen
- **31. halt:** Instructs the hardware to stop all CPU functions
- **32. reboot:** Instructs the system to reboot
- **33. poweroff:** Sends an ACPI signal which instructs the system to power down

## **CODE AND OUTPUT:**

ict30@ict30-ThinkCentre-M71e:~\$ sudo su [sudo] password for ict30:

root@ict30-ThinkCentre-M71e:/home/ict30# cd Desktop root@ict30-ThinkCentre-M71e:/home/ict30# pwd /home/ict30 root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# mkdir Pascal root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# ls

827 diffie.java exptno2.odt hello1.txt pranil.java abc exptno1.docx hello pranil number.cpp diffie.class exptno2.docx hello1 pranil2.java Pascal root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# ls -a . abc exptno1.docx hello pranil number.cpp .. diffie.class exptno2.docx hello1 pranil2.java Pascal 827 diffie.java exptno2.odt hello1.txt pranil.java

root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# ls -l total 280 drwxrwxr-x 2 ict30 ict30 4096 Jan 17 15:30 827 -rw-rw-r-- 1 pranil ict30 33 Jan 16 11:44 abc

-rw-rw-r-- 1 pranil ict30 1466 Jan 15 09:16 diffie.class -rw-rw-r-- 1 ict30 ict30 951 Jan 15 09:15 diffie.java -rw-r--r-- 1 ict30 ict30 82031 Jan 8 20:25 exptno1.docx -rw-r--r-- 1 ict30 ict30 71167 Jan 15 14:47 exptno2.docx -rw-rw-r-- 1 ict30 ict30 77817 Jan 15 09:29 exptno2.odt drwxrwxrwx 2 ict30 ict30 4096 Jan 9 11:29 hello -rw-rw-r-- 1 ict30 ict30 46 Jan 9 11:29 hello1 -rwxrwxrwx 1 ict30 root 46 Jan 9 11:27 hello1.txt -rw-rw-r-- 1 ict30 ict30 46 Jan 9 11:27 pranil -rw-rw-r-- 1 ict30 ict30 53 Jan 10 10:53 pranil2.java -rwxrwxrwx 1 ict30 ict30 53 Jan 10 10:51 pranil.java -rw-rw-r-- 1 ict30 ict30 438 Jan 15 09:42 number.cpp drwxr-xr-x 2 root root 4096 Jan 18 10:56 Pascal root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# touch xyz.txt root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# gedit xyz.txt root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# cat xyz.txt root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# gedit xyz.txt root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# cat xyz.txt Hello root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# ps PID TTY TIME CMD 2207 pts/4 00:00:00 sudo 2208 pts/4 00:00:00 su 2209 pts/4 00:00:00 bash 2267 pts/4 00:00:00 dbus-launch 2539 pts/4 00:00:00 ps root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# date Thu Jan 18 11:22:05 IST 2018 root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# date +%d 18 root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# date +%m root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# date +%y 18 root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# date +%D 01/18/18 root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# date +%Y root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# date +%M 22

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root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# date +%h
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root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# date +%H
root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# date +%s
1516254783
root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# date +%S
07
root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# time
      0m0.000s
real
      0m0.000s
user
      0m0.000s
sys
root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# cal
  January 2018
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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
root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# cal -h
  January 2018
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root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# ncal
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Sa 6 13 20 27
root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# cal -3
 December 2017
                     January 2018
                                      February 2018
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
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                                    1 2 3
3 4 5 6 7 8 9 7 8 9 10 11 12 13 4 5 6 7 8 9 10
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root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# cal -j
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root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# cal -j 2018 2018

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root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# cal -w
Usage: cal [general options] [-hjy] [[month] year]
 cal [general options] [-hj] [-m month] [year]
 ncal [general options] [-bhJjpwySM] [-s country\_code] [[month] year]
 ncal [general options] [-bhJeoSM] [year]
General options: [-NC31] [-A months] [-B months]
For debug the highlighting: [-H yyyy-mm-dd] [-d yyyy-mm]

root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# mv xyz.txt pqr.txt

root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# gedit pqr.txt

root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# head -5 pqr.txt

Hello

science

english

maths

physics

root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# tail -5 pqr.txt

maths

physics

chemistry

biology

computers

root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# more pqr.txt

Hello

science

english

maths

physics

```
chemistry
biology
computers
root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# less pqr.txt
root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# man ls
                                                                                 User Commands
LS(1)
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
           scale sizes by SIZE before printing them; e.g., '--block-size=M' prints sizes in units of
1,048,576 bytes; see SIZE format
        below
    -B, --ignore-backups
        do not list implied entries ending with ~
          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
```

-C

list entries by columns

```
--color[=WHEN]
         colorize the output; WHEN can be 'always' (default if omitted), 'auto', or 'never'; more info
below
    -d, --directory
-D, --dired
         generate output designed for Emacs' dired mode
    -f
         do not sort, enable -aU, disable -ls --color
    -F, --classify
        append indicator (one of */=>@|) to entries
    --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
         like -l, but do not list owner
    -g
    --group-directories-first
        group directories before files;
        can be augmented with a --sort option, but any use of --sort=none (-U) disables grouping
    --hide=PATTERN
        do not list implied entries matching shell PATTERN (overridden by -a or -A)
    --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
          fill width with a comma separated list of entries
    -m
    -n, --numeric-uid-gid
        like -l, but list numeric user and group IDs
    -N, --literal
```

print raw entry names (don't treat e.g. control characters specially)

- -o like -l, but do not list group information
- -p, --indicator-style=slash
   append / indicator to directories
- -q, --hide-control-charsprint ? instead of nongraphic characters
- --show-control-chars show nongraphic characters as-is (the default, unless program is 'ls' and output is a terminal)
  - -Q, --quote-name enclose entry names in double quotes
- --quoting-style=WORD use quoting style WORD for entry names: literal, locale, shell, shell-always, shell-escape, shell-escape-always, c, escape
  - -r, --reverse reverse order while sorting
  - -R, --recursive list subdirectories recursively
  - -s, --size print the allocated size of each file, in blocks
  - -S sort by file size, largest first
  - --sort=WORD sort by WORD instead of name: none (-U), size (-S), time (-t), version (-v), extension (-X)
  - --time=WORD

with  $\,$  -l, show time as WORD instead of default modification time: atime or access or use (-u); ctime or status (-c); also use

specified time as sort key if --sort=time (newest first)

--time-style=STYLE

with -l, show times using style STYLE: full-iso, long-iso, iso, locale, or +FORMAT; FORMAT is interpreted like in 'date'; if

FORMAT1 is FORMAT1</br>
FORMAT2, then FORMAT1 applies to non-recent files and FORMAT2 to recent files; if STYLE is prefixed

with 'posix-', STYLE takes effect only outside the POSIX locale

- -t sort by modification time, newest first
- -T, --tabsize=COLS assume tab stops at each COLS instead of 8
- -u with -lt: sort by, and show, access time; with -l: show access time and sort by name;
   otherwise: sort by access time, newest
   first
- -U do not sort; list entries in directory order-v natural sort of (version) numbers within text
  - -w, --width=COLS
     set output width to COLS. 0 means no limit
  - -x list entries by lines instead of by columns
  - -X sort alphabetically by entry extension
  - -Z, --context print any security context of each file
  - -1 list one file per line. Avoid '\n' with -q or -b
  - --help display this help and exit
  - --version output version information and exit

The SIZE argument is an integer and optional unit (example: 10K is 10\*1024). Units are K,M,G,T,P,E,Z,Y (powers of 1024) or

KB,MB,... (powers of 1000).

Using color to distinguish file types is disabled both by default and with --color=never. With --color=auto, ls emits color codes

only when standard output is connected to a terminal. The LS\_COLORS environment variable can change the settings. Use the dircol-

ors command to set it.

#### Exit status:

- 0 if OK,
- 1 if minor problems (e.g., cannot access subdirectory),
- 2 if serious trouble (e.g., cannot access command-line argument).

#### **AUTHOR**

Written by Richard M. Stallman and David MacKenzie.

#### REPORTING BUGS

GNU coreutils online help: <a href="http://www.gnu.org/software/coreutils/">http://www.gnu.org/software/coreutils/</a>

Report ls translation bugs to <a href="http://translationproject.org/team/">http://translationproject.org/team/</a>

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This is free software: you are free to change and redistribute it. There is NO WARRANTY, to the extent permitted by law.

## **SEE ALSO**

Full documentation at: <a href="http://www.gnu.org/software/coreutils/ls">http://www.gnu.org/software/coreutils/ls</a> or available locally via: info '(coreutils) ls invocation'

**GNU** coreutils 8.25

February 2016

root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# history

- 1 useradd prachi
- 2 userdel prachi
- 3 adduser prachi
- 4 service postgreql start
- 5 service postgresql start
- 6 init 0
- 7 adduser pranil
- 8 useradd pranil
- 9 passwd pranil
- 10 sudo su pranil
- 11 deluse pranil
- 12 deluser pranil
- 13 deluser
- 14 clear
- 15 sudo su -
- 16 deluser
- 17 init 0
- 18 adduser Aniesha
- 19 useradd Aniesha
- 20 useradd aniesha
- 21 useradd anieshar
- 22 adduser anieshar
- 23 adduser aniesha
- 24 password Aniesha
- 25 password aniesha
- 26 passwd Aniesha

- 27 userdel aniesha
- 28 userdel anieshar
- 29 userdel Aniesha
- 30 cd desktop
- 31 cd Desktop
- 32 mkdir Aniesha
- 33 ls
- 34 ls -a
- 35 ls -i
- 36 ls -l
- 37 touch Aniesha.txt
- 38 ls -l
- 39 gedit Aniesha.txt
- 40 cat Aniesha.txt
- 41 ps
- 42 date
- 43 date +%d
- 44 date +%m
- 45 date +%y
- 46 date +%D
- 47 date +%M
- 48 date +%Y
- 49 date +%M
- 50 date +%H
- 51 date +%h
- 52 date +%S
- 53 date +%s
- 54 time
- 55 cal
- 56 cal -h
- 57 ncal
- 58 cal -3
- 59 cal 2018
- 60 cal -j
- 61 cal -j 2018
- 62 cal -w
- 63 mv Aniesha.txt ani.txt
- 64 gedit ani.txt
- 65 head -f ani.txt
- 66 head -5 ani.txt
- 67 tail -5 ani.txt
- 68 more ani.txt
- 69 less ani.txt
- 70 touch anie.txt
- 71 cp ani.txt anie.txt
- 72 cat anie.txt

- 73 man ls
- 74 history
- 75 who
- 76 whoami
- 77 echo
- 78 echo "string"
- 79 echo "Hi"
- 80 rmdir Aniesha
- 81 rm ani.txt
- 82 rm anie.txt
- 83 cd..
- 84 poweroff
- 85 chmod 777 seit39
- 86 ls -l
- 87 chmod 777 Pictures
- 88 ls -l
- 89 ls -h
- 90 ls -o
- 91 ls -d
- 92 ls -h
- 93 ls -s
- 94 ls -st
- 95 ls -ST
- 96 ls -lst
- 97 ls -hsl
- 98 ls -hslc
- 99 ls -rlt
- 100 ls -R
- 101 ls -%A
- 102 DATE +%D
- 103 date +%D
- 104 date +%U
- 105 cal -j 2018
- 106 cal -B2 -A3
- 107 man ps
- 108 pstree ict30
- 109 time +%T
- 110 date +%T
- 111 reboot
- 112 useradd Shubham
- 113 finger
- 114 user
- 115 apt install finger
- 116 finger
- 117 adduser ict457
- 118 cat /etc/passwd

- 119 addgroup scs
- 120 addgroup shubham scs
- 121 addgroup Shubham scs
- 122 delgroup Shubham scs
- 123 cat /etc/shodow
- 124 cat /etc/shadow
- 125 init 0
- 126 adduser MayuriBE
- 127 adduser mayuriBE
- 128 adduser mayuriBE54
- 129 adduser mayuri54
- 130 cat /etc/passwd
- 131 addgroup CSM
- 132 addgroup csm
- 133 adduser pranil
- 134 cat /etc/password
- 135 cat /etc/passwd
- 136 addgroup jigzz
- 137 gpasswd
- 138 gpasswd jigzz
- 139 cat /etc/group
- 140 cat /etc/gshadow
- 141 cat /etc/shadow
- 142 cat > hello
- 143 cat>hello
- 144 cat>hi
- 145 cat hello hi
- 146 vi
- 147 wc hello
- 148 wc -l hello
- 149 wc -w hello
- 150 wc -c hello
- 151 history
- 152 head hello
- 153 tail hello
- 154 vi
- 155 vi hello
- 156 poweroff
- 157 cd Desktop
- 158 mkdir Pascal
- 159 ls
- 160 ls -a
- 161 ls -i
- 162 ls -l
- 163 touch xyz.txt
- 164 gedit xyz.txt

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165 cat xyz.txt
```

- 166 gedit xyz.txt
- 167 cat xyz.txt
- 168 ps
- 169 date
- 170 date +%d
- 171 date +%m
- 172 date +%y
- 173 date +%D
- 174 date +%Y
- 175 date +%M
- 176 date +%h
- 177 date +%H
- 178 date +%s
- 179 date +%S
- 180 time
- 181 cal
- 182 cal -h
- 183 ncal
- 184 cal -3
- 185 cal 2018
- 186 cal -j
- 187 cal -j 2018
- 188 cal -w
- 189 mv xyz.txt pqr.txt
- 190 gedit pqr.txt
- 191 head -5 pqr.txt
- 192 tail -5 pqr.txt
- 193 more
- 194 more pqr.txt
- 195 less pqr.txt
- 196 man ls
- 197 history

root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# ls -l total 276

drwxrwxr-x 2 ict30 ict30 4096 Jan 17 15:30 827

-rw-rw-r-- 1 ict30 ict30 33 Jan 16 11:44 abc

-rw-rw-r-- 1 ict30 ict30 1466 Jan 15 09:16 diffie.class

-rw-rw-r-- 1 ict30 ict30 951 Jan 15 09:15 diffie.java

```
-rw-r--r-- 1 ict30 ict30 82031 Jan 8 20:25 exptno1.docx

-rw-r--r-- 1 ict30 ict30 71167 Jan 15 14:47 exptno2.docx

-rw-rw-r-- 1 ict30 ict30 77817 Jan 15 09:29 exptno2.odt

drwxrwxrwx 2 ict30 ict30 4096 Jan 9 11:29 hello

-rw-rw-r-- 1 ict30 ict30 46 Jan 9 11:29 hello1

-rw-rw-r-- 1 ict30 ict30 46 Jan 9 11:27 hello1.txt

-rw-rw-r-- 1 ict30 ict30 46 Jan 9 11:27 pranil

-rw-rw-r-- 1 ict30 ict30 53 Jan 10 10:53 pranil2.java

-rwxrwxrwx 1 ict30 ict30 53 Jan 10 10:51 pranil.java

-rw-rw-r-- 1 ict30 ict30 438 Jan 15 09:42 number.cpp
```

root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# chmod 777 hello1.txt

```
root@ict30-ThinkCentre-M71e:/home/ict30/Desktop\#\ ls\ -l\ total\ 276
```

total 276
drwxrwxr-x 2 ict30 ict30 4096 Jan 17 15:30 827
-rw-rw-ry-1 ict30 ict30 33 Jan 16 11:44 abc
-rw-rw-ry-1 ict30 ict30 1466 Jan 15 09:16 diffie.class
-rw-ry-ry-1 ict30 ict30 951 Jan 15 09:15 diffie.java
-rw-ry-ry-1 ict30 ict30 82031 Jan 8 20:25 exptno1.docx
-rw-ry-ry-1 ict30 ict30 71167 Jan 15 14:47 exptno2.docx
-rw-ry-ry-1 ict30 ict30 77817 Jan 15 09:29 exptno2.odt
drwxrwxrwx 2 ict30 ict30 4096 Jan 9 11:29 hello
-rw-ry-ry-1 ict30 ict30 46 Jan 9 11:29 hello1
-rwxrwxrwx 1 ict30 ict30 46 Jan 9 11:27 pranil
-rw-ry-ry-1 ict30 ict30 53 Jan 10 10:53 pranil2.java
-rwxrwxrwx 1 ict30 ict30 53 Jan 10 10:51 pranil.java

-rw-rw-r-- 1 ict30 ict30 438 Jan 15 09:42 number.cpp

root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# chown pranil abc root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# chown pranil diffie.class root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# chgrp root hello1.txt root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# bc bc 1.06.95

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2+3

5

5/3

```
1
scale=2
5/3
1.66
\wedge Z
[1]+ Stopped
                      bc
root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# who
ict30 tty7
               2018-01-18 10:33 (:0)
root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# whoami
root
root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# echo "hello"
hello
root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# rmdir Pascal
root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# rm pqr.txt
root@ict30-ThinkCentre-M71e:/home/ict30/Desktop# cd ..
```

**OUTCOME:** The study of basic user commands in UNIX has helped us learn about various commands and their use in detail to work on such an OS.

**CONCLUSION:** We successfully studied the basic user commands in UNIX on our machine.