Assignment No 1

1)MAN:

```
karan@D2-KARAN-92917: ~
                                                                                                                                            Q =
MAN(1)
                                                                      Manual pager utils
                                                                                                                                                                 MAN(1)
NAME
            man - an interface to the system reference manuals
SYNOPSIS
           man [man options] [[section] page ...] ...
man -k [apropos options] regexp ...
man -K [man options] [section] term ...
man -f [whatis options] page ...
man -l [man options] file ...
            man -w|-W [man options] page ...
DESCRIPTION
           man is the system's manual pager. Each <u>page</u> argument given to man is normally the name of a program, utility or function. The <u>manual page</u> associated with each of these arguments is then found and displayed. A <u>section</u>, if provided, will direct man to look only in that <u>section</u> of the manual. The default action is to search in all of the available <u>sections</u> following a pre-defined order (see DEFAULTS), and to show only the first <u>page</u> found, even if <u>page</u> exists in several <u>sections</u>.
            The table below shows the section numbers of the manual followed by the types of pages they
            contain.
                   Executable programs or shell commands
                  System calls (functions provided by the kernel)
Library calls (functions within program libraries)
Special files (usually found in /dev)
                   File formats and conventions, e.g. /etc/passwd
                   Games
                   Miscellaneous (including macro packages and conventions), e.g. man(7), groff(7),
                   man-pages(7)
                   System administration commands (usually only for root)
                   Kernel routines [Non standard]
            A manual page consists of several sections.
            Conventional section names include NAME, SYNOPSIS, CONFIGURATION, DESCRIPTION, OPTIONS, EXIT STATUS, RETURN VALUE, ERRORS, ENVIRONMENT, FILES, VERSIONS, CONFORMING TO, NOTES, BUGS, EXAMPLE, AUTHORS, and SEE ALSO.
            The following conventions apply to the SYNOPSIS section and can be used as a guide in other
            sections.
                                             type exactly as shown. replace with appropriate argument.
            bold text
            <u>italic</u> text
                                             any or all arguments within [ ] are optional. options delimited by | cannot be used together. argument is repeatable.
            [-abc]
            -a|-b
            <u>argument</u> ...
            [expression] ...
                                             entire <u>expression</u> within [ ] is repeatable.
            Exact rendering may vary depending on the output device. For instance, man will usually not be able to render italics when running in a terminal, and will typically use underlined
            or coloured text instead.
 Manual page man(1) line 1 (press h for help or q to quit)
```

2)uname:

```
karan@D2-KARAN-92917:-$ uname
Linux
karan@D2-KARAN-92917:-$ uname -i
.x86_64
karan@D2-KARAN-92917:-$ uname -a
Linux D2-KARAN-92917 6.8.0-40-generic #40~22.04.3-Ubuntu SMP PREEMPT_DYNAMIC Tue Jul 30 17:30:19 UTC
2 x86_64 x86_64 x86_64 GNU/Linux
karan@D2-KARAN-92917:-$
```

3)pwd:

```
karan@D2-KARAN-92917:~$ pwd
-/home/karan
```

4)hostname:

```
karan@D2-KARAN-92917:~$ hostname -A
D2-KARAN-92917 D2-KARAN-92917 D2-KARAN-92917
karan@D2-KARAN-92917:~$ hostname -i
2409:40c2:1296:f0f4:130c:756f:800e:8d53 2409:40c2:1296:f0f4:8171:2f5c:bc9a:8c9a 10.212.102.109 fe80::
-7dd4:5ddc:bea5:bb85
karan@D2-KARAN-92917:~$
```

5)date:

```
karan@D2-KARAN-92917:~$ date
Saturday 25 October 2025 03:16:01 PM IST
```

6)cal:

7)ls,dir

```
karan@D2-KARAN-92917:-$ ls
authenticator.txt Desktop Downloads Pictures snap Videos

CDAC Documents Music Public Templates

karan@D2-KARAN-92917:-$ dir
authenticator.txt Desktop Downloads Pictures snap Videos

CDAC Documents Music Public Templates

karan@D2-KARAN-92917:-$
```

8)cat:

9)cat>>

```
karan@D2-KARAN-92917:~$ cat demo.txt
karan@D2-KARAN-92917:~$ cat >> demo.txt
karan ramchnadra patil
hi
to
everyone
karan@D2-KARAN-92917:~$ cat demo.txt
karan ramchnadra patil
hi
to
everyone
karan@D2-KARAN-92917:~$
```

10)mv:

```
karan@D2-KARAN-92917:~$ ls
authenticator.txt demo.txt Documents Music Public Templates

CDAC Desktop Downloads Pictures snap Videos

karan@D2-KARAN-92917:~$ mv demo.txt CDAC

karan@D2-KARAN-92917:~$ ls
authenticator.txt Desktop Downloads Pictures snap Videos

CDAC Documents Music Public Templates

karan@D2-KARAN-92917:~$ cd CDAC

karan@D2-KARAN-92917:~/CDAC$ ls

Day-1 Day-2 demo.txt info.txt one OS

karan@D2-KARAN-92917:~/CDAC$
```

11)mv:

```
karan@D2-KARAN-92917:~/CDAC$ ls

Day-1 Day-2 demo.txt info.txt one OS

karan@D2-KARAN-92917:~/CDAC$ mv demo.txt demo2.txt

karan@D2-KARAN-92917:~/CDAC$ ls

Day-1 Day-2 demo2.txt info.txt one OS

karan@D2-KARAN-92917:~/CDAC$
```

12) tac,rev:

```
karan@D2-KARAN-92917:~/CDAC$ tac demo2.txt
everyone
to
hi
karan ramchnadra patil
karan@D2-KARAN-92917:~/CDAC$ rev demo2.txt
litap ardanhcmar narak
ih
ot
enoyreve
karan@D2-KARAN-92917:~/CDAC$
```

13)wc:

```
karan@D2-KARAN-92917:~/CDAC$ wc demo2.txt
4 6 39 demo2.txt
karan@D2-KARAN-92917:~/CDAC$ wc -m demo2.txt
39 demo2.txt
karan@D2-KARAN-92917:~/CDAC$ wc -w demo2.txt
6 demo2.txt
karan@D2-KARAN-92917:~/CDAC$ wc -l demo2.txt
4 demo2.txt
karan@D2-KARAN-92917:~/CDAC$
```

14)mkdir:

```
karan@D2-KARAN-92917:~/CDAC$ ls

Day-1 Day-2 demo2.txt info.txt one OS

karan@D2-KARAN-92917:~/CDAC$ mkdir demo

karan@D2-KARAN-92917:~/CDAC$ ls

Day-1 Day-2 demo demo2.txt info.txt one OS
```

15)cd:

```
karan@D2-KARAN-92917:~/CDAC$ cd demo
karan@D2-KARAN-92917:~/CDAC/demo$ ls
karan@D2-KARAN-92917:~/CDAC/demo$ cd ..
karan@D2-KARAN-92917:~/CDAC$ ls
bay-1
Day-2 demo demo2.txt info.txt one OS
```

16)rm:

```
karan@D2-KARAN-92917:~/CDAC$ rm info.txt
karan@D2-KARAN-92917:~/CDAC$ ls

Day-1 Day-2 demo demo2.txt one OS
karan@D2-KARAN-92917:~/CDAC$ rm -r demo
karan@D2-KARAN-92917:~/CDAC$ ls

Day-1 Day-2 demo2.txt one OS
karan@D2-KARAN-92917:~/CDAC$
```

17)rmdir:

```
karan@D2-KARAN-92917:~/CDAC$ rmdir demo
karan@D2-KARAN-92917:~/CDAC$ ls

Day-1 Day-2 demo2.txt one OS
karan@D2-KARAN-92917:~/CDAC$
```

18)touch:

```
karan@D2-KARAN-92917:~/CDAC$ touch 1.txt
 karan@D2-KARAN-92917:~/CDAC$ ls
1.txt Day-1 Day-2 demo2.txt one OS
karan@D2-KARAN-92917:~/CDAC$ touch 2.txt 3.txt 4.txt
karan@D2-KARAN-92917:~/CDAC$ ls
1.txt 2.txt 3.txt 4.txt Day-1 Day-2 demo2.txt one OS
karan@D2-KARAN-92917:~/CDAC$ 1.txt -a
1.txt: command not found
 karan@D2-KARAN-92917:~/CDAC$ stat 1.txt
  File: 1.txt
                                                             IO Block: 4096 regular empty file
  Size: 0
                                  Blocks: 0
Device: 1030ah/66314d Inode: 1708361
                                                             Links: 1
Access: (0664/-rw-rw-r--) Uid: ( 1000/ karan) Gid: ( 1000/ karan)
Access: 2025-10-25 15:33:11.363368680 +0530
Modify: 2025-10-25 15:33:11.363368680 +0530
Change: 2025-10-25 15:33:11.363368680 +0530
 Birth: 2025-10-25 15:33:11.363368680 +0530
 karan@D2-KARAN-92917:~/CDAC$ touch 1.txt
karan@D2-KARAN-92917:~/CDAC$ stat 1.txt
  File: 1.txt
   Size: 0
                                                             IO Block: 4096
                                                                                    regular empty file
                                  Blocks: 0
Device: 1030ah/66314d Inode: 1708361
                                                            Links: 1
Access: (0664/-rw-rw-r--) Uid: (1000/ ka
Access: 2025-10-25 15:35:58.245729493 +0530
Modify: 2025-10-25 15:35:58.245729493 +0530
                                                           karan) Gid: ( 1000/
                                                                                             karan)
Change: 2025-10-25 15:35:58.245729493 +0530
 Birth: 2025-10-25 15:33:11.363368680 +0530
 karan@D2-KARAN-92917:~/CDAC$
```

19)sort:

```
karan@D2-KARAN-92917:~/CDAC$ cat demo.txt
Banana
Apple
Banana
Mango
Pineapple
Apple
Grapes
Orange
Apple
Pineapple
Cherry
Grapes
karan@D2-KARAN-92917:~/CDAC$ sort demo.txt
Apple
Apple
Apple
Banana
Banana
Cherry
Grapes
Grapes
Mango
Orange
Pineapple
Pineapple
karan@D2-KARAN-92917:~/CDACS
```

20)uniq:

```
karan@D2-KARAN-92917:~/CDAC$ sort demo.txt | uniq
Apple
Banana
Cherry
Grapes
Mango
Orange
Pineapple
karan@D2-KARAN-92917:~/CDAC$ sort demo.txt | uniq -c
      3 Apple
      2 Banana
      1 Cherry
      2 Grapes
      1 Mango
      1 Orange
      2 Pineapple
karan@D2-KARAN-92917:~/CDAC$ sort demo.txt | uniq -d
Apple
Banana
Grapes
Pineapple
karan@D2-KARAN-92917:~/CDAC$
```

21)head:

```
karan@D2-KARAN-92917:~/CDAC$ head demo.txt
Banana
Apple
Banana
Mango
Pineapple
Apple
Grapes
Orange
Apple
Pineapple
karan@D2-KARAN-92917:~/CDAC$ head -n 2 demo.txt
Banana
Apple
karan@D2-KARAN-92917:~/CDAC$ head -n 5 demo.txt
Banana
Apple
Banana
Mango
Pineapple
karan@D2-KARAN-92917:~/CDAC$
```

22)tail:

```
karan@D2-KARAN-92917:~/CDAC$ tail demo.txt
Mango
Pineapple
Apple
Grapes
Orange
Apple
Pineapple
Cherry
Grapes

karan@D2-KARAN-92917:~/CDAC$ tail -n 2 demo.txt
Grapes

karan@D2-KARAN-92917:~/CDAC$ tail -n 5 demo.txt
Apple
Pineapple
Cherry
Grapes
karan@D2-KARAN-92917:~/CDAC$ tail -n 5 demo.txt
Apple
Pineapple
Cherry
Grapes
karan@D2-KARAN-92917:~/CDAC$
```

23) factor:

```
karan@D2-KARAN-92917:~/CDAC$ factor 2
2: 2
karan@D2-KARAN-92917:~/CDAC$ factor 10
10: 2 5
karan@D2-KARAN-92917:~/CDAC$ factor 100
100: 2 2 5 5
karan@D2-KARAN-92917:~/CDAC$ factor 15
15: 3 5
karan@D2-KARAN-92917:~/CDAC$
```

24)alias:

```
karan@D2-KARAN-92917:~/CDAC$ alias ls 'l'
alias ls='ls --color=auto'
alias l='ls -CF'
karan@D2-KARAN-92917:~/CDAC$ l
bay-1/ Day-2/ demo2.txt demo.txt one/ OS/ sdm/
```

25) unalias:

```
karan@D2-KARAN-92917:~/CDAC$ unalias l
karan@D2-KARAN-92917:~/CDAC$ l
l: command not found
karan@D2-KARAN-92917:~/CDAC$
```

26) echo:

```
karan@D2-KARAN-92917:~/CDAC$ echo

karan@D2-KARAN-92917:~/CDAC$ echo 123456799

123456799

karan@D2-KARAN-92917:~/CDAC$ echo hello world
hello world
karan@D2-KARAN-92917:~/CDAC$
```

27) kill:

```
karan@D2-KARAN-92917:~/CDAC$ kill 123
bash: kill: (123) - Operation not permitted
karan@D2-KARAN-92917:~/CDAC$
```

28) env:

```
karan@D2-KARAN-92917:~/CDAC$ env
SHELL=/bin/bash
SESSION_MANAGER=local/D2-KARAN-92917:@/tmp/.ICE-unix/1675,unix/D2-KARAN-92917:/tmp/.ICE-unix/1675
QT_ACCESSIBILITY=1
COLORTERM=truecolor
XDG_CONFIG_DIRS=/etc/xdg/xdg-ubuntu:/etc/xdg
SSH_AGENT_LAUNCHER=gnome-keyring
XDG_MENU_PREFIX=gnome-
GNOME_DESKTOP_SESSION_ID=this-is-deprecated
LANGUAGE=en_IN:en
GNOME_SHELL_SESSION_MODE=ubuntu
SSH_AUTH_SOCK=/run/user/1000/keyring/ssh
XMODIFIERS=@im=ibus
DESKTOP_SESSION=ubuntu
GTK_MODULES=gail:atk-bridge
DBUS_STARTER_BUS_TYPE=session
PWD=/home/karan/CDAC
LOGNAME=karan
XDG_SESSION_DESKTOP=ubuntu
XDG_SESSION_TYPE=wayland
SYSTEMD_EXEC_PID=1675
XAUTHORITY=/run/user/1000/.mutter-Xwaylandauth.ZYSQE3
HOME=/home/karan
USERNAME=karan
IM_CONFIG PHASE=1
LANG=en_IN
LS_COLORS=rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33;01:cd=40;33;01:or=40;31;01
:mi=00:su=37;41:sg=30;43:ca=30;41:tw=30;42:ow=34;42:st=37;44:ex=01;32:*.tar=01;31:*.tgz=01;31:*.arc=0
1;31:*.arj=01;31:*.taz=01;31:*.lha=01;31:*.lz4=01;31:*.lzh=01;31:*.lzma=01;31:*.tlz=01;31:*.txz=01;31
:*.tzo=01;31:*.t7z=01;31:*.zip=01;31:*.z=01;31:*.dz=01;31:*.gz=01;31:*.lrz=01;31:*.lz=01;31:*.lzo=01;
31:*.xz=01;31:*.zst=01;31:*.tzst=01;31:*.bz2=01;31:*.bz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;31:*.tbz=01;3
eb=01;31:*.rpm=01;31:*.jar=01;31:*.war=01;31:*.ear=01;31:*.sar=01;31:*.rar=01;31:*.alz=01;31:*.ace=01
;31:*.zoo=01;31:*.cpio=01;31:*.7z=01;31:*.rz=01;31:*.cab=01;31:*.wim=01;31:*.swm=01;31:*.dwm=01;31:*.
esd=01;31:*.jpg=01;35:*.jpeg=01;35:*.mjpg=01;35:*.mjpeg=01;35:*.gif=01;35:*.bmp=01;35:*.pbm=01;35:*.p
gm=01;35:*.ppm=01;35:*.tga=01;35:*.xbm=01;35:*.xpm=01;35:*.tif=01;35:*.tiff=01;35:*.png=01;35:*.svg=0
1;35:*.svgz=01;35:*.mng=01;35:*.pcx=01;35:*.mov=01;35:*.mpg=01;35:*.mpeg=01;35:*.m2v=01;35:*.mkv=01;3
5:*.webm=01;35:*.webp=01;35:*.ogm=01;35:*.mp4=01;35:*.m4v=01;35:*.mp4v=01;35:*.vob=01;35:*.qt=01;35:
.nuv=01;35:*.wmv=01;35:*.asf=01;35:*.rm=01;35:*.rmvb=01;35:*.flc=01;35:*.avi=01;35:*.fli=01;35:*.flv=
01;35:*.gl=01;35:*.dl=01;35:*.xcf=01;35:*.xwd=01;35:*.yuv=01;35:*.cgm=01;35:*.emf=01;35:*.ogv=01;35:
.ogx=01;35:*.aac=00;36:*.au=00;36:*.flac=00;36:*.m4a=00;36:*.mid=00;36:*.midi=00;36:*.mka=00;36:*.mp3
=00;36:*.mpc=00;36:*.ogg=00;36:*.ra=00;36:*.wav=00;36:*.oga=00;36:*.opus=00;36:*.spx=00;36:*.xspf=00;
36:
XDG_CURRENT_DESKTOP=ubuntu:GNOME
VTE_VERSION=6800
WAYLAND_DISPLAY=wayland-0
GNOME_TERMINAL_SCREEN=/org/gnome/Terminal/screen/d60b941c_4fd5_4358_abd2_7b7cdde9cd19
GNOME_SETUP_DISPLAY=:1
LESSCLOSE=/usr/bin/lesspipe %s %s
```