

Assignment No : 1

1) man man man

```
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 page argument given to man is
    normally the name of a program, utility or function. The manual page
    associated with each of these arguments is then found and displayed. A
    section, if provided, will direct man to look only in that section of
    the manual. The default action is to search in all of the available
    sections following a pre-defined order (see DEFAULTS), and to show only
    the first page found, even if page exists in several sections.
```

2) uname

Linux

3) pwd

/home/tushar/Documents/os_assignments

4) hostname

tushar-HP-Pavilion-Notebook

5) date

Monday 25 December 2023 03:00:28 PM IST

6) cal

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ cal -y
2023
January February March
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6  7      1  2  3  4      1  2  3  4
 8  9 10 11 12 13 14    5  6  7  8  9 10 11    5  6  7  8  9 10 11
15 16 17 18 19 20 21   12 13 14 15 16 17 18   12 13 14 15 16 17 18
22 23 24 25 26 27 28   19 20 21 22 23 24 25   19 20 21 22 23 24 25
29 30 31      26 27 28      26 27 28 29 30 31

April May June
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
      1      1  2  3  4  5  6      1  2  3
 2  3  4  5  6  7  8    7  8  9 10 11 12 13    4  5  6  7  8  9 10
 9 10 11 12 13 14 15   14 15 16 17 18 19 20   11 12 13 14 15 16 17
16 17 18 19 20 21 22   21 22 23 24 25 26 27   18 19 20 21 22 23 24
23 24 25 26 27 28 29   28 29 30 31      25 26 27 28 29 30
30

July August September
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
      1      1  2  3  4  5      1  2
 2  3  4  5  6  7  8    6  7  8  9 10 11 12    3  4  5  6  7  8  9
 9 10 11 12 13 14 15   13 14 15 16 17 18 19   10 11 12 13 14 15 16
16 17 18 19 20 21 22   20 21 22 23 24 25 26   17 18 19 20 21 22 23
23 24 25 26 27 28 29   27 28 29 30 31      24 25 26 27 28 29 30
30 31

October November December
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6  7      1  2  3  4      1  2
 8  9 10 11 12 13 14    5  6  7  8  9 10 11    3  4  5  6  7  8  9
15 16 17 18 19 20 21   12 13 14 15 16 17 18   10 11 12 13 14 15 16
22 23 24 25 26 27 28   19 20 21 22 23 24 25   17 18 19 20 21 22 23
29 30 31      26 27 28 29 30      24 25 26 27 28 29 30
31
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$
```

7) ls, dir

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ dir
err.txt lserr.txt lsout.txt name.txt num.txt os out.txt repeat.txt select.txt test.txt
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ ls
err.txt lserr.txt lsout.txt name.txt num.txt os out.txt repeat.txt select.txt test.txt
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$
```

8) cat

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ cat > tush.txt
Hi i am motabhai
From Dmc.tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ cat tush.txt
Hi i am motabhai
From Dmc.tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$
```

9) cat >>

```
I am from gujrat.
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ cat tush.txt
Hi i am motabhai
From Dmc.I am from gujrat.
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$
```

10) cp

copied a file-

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ cp tush.txt mota.txt
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ ls
err.txt lserr.txt lsout.txt mota.txt name.txt num.txt os out.txt repeat.txt select.txt test.txt tush.txt
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ cp -r dir1 copydir1
```

copied a directory-

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ ls
copydir1 lserr.txt name.txt out.txt test.txt
dir1 lsout.txt num.txt repeat.txt
err.txt mota.txt os select.txt
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ mv
```

11) mv

move the file-

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ ls
copydir1 dir1 err.txt lserr.txt lsout.txt name.txt num.txt os out.txt repeat.txt select.txt test.txt
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ ls copydir1
dir1 mota.txt
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$
```

12) mv

rename the file

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ ls
copydir1 dir1 err.txt lserr.txt lsout.txt name.txt num.txt os out.txt renamedfile1.txt repeat.txt select.txt test.txt
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$
```

tac-

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ cat renamedfile1.txt
Hi i am motabhai
From Dmc.I am from gujrat.
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ tac renamedfile1.txt
From Dmc.I am from gujrat.
Hi i am motabhai
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$
```

rev-

14) wc

```
ashu@ashu-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/SUNBEAM/DMC/Classwork/Operating_System$ wc renamedfile1.txt
3 11 63 renamedfile1.txt
```

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ cat renamedfile1.txt
Hi i am motabhai
From Dmc.I am from gujrat.
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ rev renamedfile1.txt
iahbatom ma i iH
.tarjug morf ma I.cMD morF
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$
```

15) mkdir

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ ls
copydir1 dir1 err.txt lserr.txt lsout.txt name.txt newdir num.txt os out.txt renamedfile1.txt repeat.txt select.txt test.txt
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$
```

16) cd

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ cd copydir1
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments/copydir1$ ls
dir1 mota.txt
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments/copydir1$ pwd
/home/tushar/Documents/os_assignments/copydir1
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments/copydir1$
```

17) rm

remove a file-

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments/copydir1$ pwd
/home/tushar/Documents/os_assignments/copydir1
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments/copydir1$ ls
dir1 mota.txt
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments/copydir1$ rm mota.txt
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments/copydir1$ ls
dir1
```

remove a directory-

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments/copydir1$ cd ..
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ rmdir dir1
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ ls
copydir1 err.txt lserr.txt lsout.txt name.txt newdir num.txt os out.txt renamedfile1.txt repeat.txt select.txt test.txt
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$
```

18) rmdir

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments/copydir1$ cd ..
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ rmdir dir1
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ ls
copydir1 err.txt lserr.txt lsout.txt name.txt newdir num.txt os out.txt renamedfile1.txt repeat.txt select.txt test.txt
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$
```

19) touch

change the modification time-

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ touch renamedfile1.txt
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ ls
copydir1 lserr.txt name.txt num.txt out.txt renamedfile1.txt renamedfile1.txt select.txt
err.txt lsout.txt newdir os renamedfile1.txt repeat.txt test.txt
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ stat renamedfile1.txt
  File: renamedfile1.txt
  Size: 0          Blocks: 0          IO Block: 4096   regular empty file
Device: 807h/2055d Inode: 11805940   Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/  tushar)   Gid: ( 1000/  tushar)
Access: 2023-12-26 18:41:26.760188098 +0530
Modify: 2023-12-26 18:41:26.760188098 +0530
Change: 2023-12-26 18:41:26.760188098 +0530
 Birth: 2023-12-26 18:41:26.760188098 +0530
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$
```

create multiple empty files at once-

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ touch empty1.txt empty2.txt empty3.txt
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ ls
copydir1 empty2.txt empty3.txt err.txt lserr.txt lsout.txt name.txt num.txt out.txt renamedfile1.txt renamedfile1.txt select.txt
empty1.txt empty3.txt err.txt lsout.txt newdir os renamedfile1.txt repeat.txt test.txt
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$
```


20) sort

```
renamedfile1.txt: command not found
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ cat renamedfile1.txt
Hi i am motabhai
From Dmc.I am from gujrat.
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ sort renamedfile1.txt
From Dmc.I am from gujrat.
Hi i am motabhai
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$
```

21) uniq

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ uniq file1.txt
hi
Hello
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$
```

22) head

head -n 2 filename – displays the first 2 lines

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ cat > file2.txt
Hi
Hi
Hello
Hello From Motabhai
Hello
Hey
Hey
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ head -n 2 file2.txt
Hi
Hi
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$
```

23) tail

tail -n 2 filename

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ tail -n 2 file2.txt
Hey
Hey
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$
```

24) factor

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ factor
20
20: 2 2 5
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$
```

25) alias

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ alias CD="cd newdir"
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments$ CD
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments/newdir$
```

26) unalias

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments/newdir$ unalias CD
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments/newdir$
```

27) echo

```
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments/newdir$ echo Hello DMC
Hello DMC
tushar@tushar-HP-Pavilion-Notebook:~/Documents/os_assignments/newdir$
```

28) ps

```

tushar@tushar-HP-Pavilion-Notebook: ~/Documents/os_assignments/newdir$ ps
  PID TTY          TIME CMD
 10134 pts/0    00:00:00 bash
 11743 pts/0    00:00:00 cat
 12412 pts/0    00:00:00 cat
 30984 pts/0    00:00:00 ps
tushar@tushar-HP-Pavilion-Notebook: ~/Documents/os_assignments/newdir$
```

29) kill

```

tushar@tushar-HP-Pavilion-Notebook: ~/Documents/os_assignments/newdir$ kill
kill: usage: kill [-s sigspec | -n signum | -sigspec] pid | jobspec ... or kill -l [sigspec]
tushar@tushar-HP-Pavilion-Notebook: ~/Documents/os_assignments/newdir$
```

30) env

```

tushar@tushar-HP-Pavilion-Notebook: ~/Documents/os_assignments/newdir$ env
SHELL=/bin/bash
SESSION_MANAGER=local/tushar-HP-Pavilion-Notebook:@/tmp/.ICE-unix/1660,unix/tushar-HP-Pavilion-Notebook:/tmp/.ICE-unix/1660
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/ssh
XMODIFIERS=@im=ibus
DESKTOP_SESSION=ubuntu
GTK_MODULES=gail:atk-bridge
DBUS_STARTER_BUS_TYPE=session
PWD=/home/tushar/Documents/os_assignments/newdir
LOGNAME=tushar
XDG_SESSION_DESKTOP=ubuntu
XDG_SESSION_TYPE=wayland
SYSTEMD_EXEC_PID=1660
XAUTHORITY=/run/user/1000/.mutter-Xwaylandauth.MI8PG2
HOME=/home/tushar
USERNAME=tushar
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:ml=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=01;31:*.arj=01;31:*.taz=01;31:*.lha=01;31:*.lzh=01;31:*.lma=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:*.tzt=01;31:*.b2=01;31:*.bz=01;31:*.tbz=01;31:*.tbz2=01;31:*.taz=01;31:*.deb=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:*.pgm=01;35:*.ppm=01;35:*.tga=01;35:*.xbm=01;35:*.xpm=01;35:*.tif=01;35:*.tiff=01;35:*.png=01;35:*.svg=01;35:*.svgz=01;35:*.mng=01;35:*.pcx=01;35:*.mov=01;35:*.mpg=01;35:*.mpeg=01;35:*.m2v=01;35:*.mkv=01;35:*.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
GTK_THEME=adwaita
```