

Name : Sanju Kumar
Class : BCA 3E
Roll No. : 23/SCA/BCA(DS&BDA)/024

Command: **chown**

```
mrsanju@MRSANJU:~/Desktop/shellprog$ sudo chown mrsanju:list file1.txt
mrsanju@MRSANJU:~/Desktop/shellprog$ ll file1.txt
-rw-rw-r-- 1 mrsanju list 61 Sep 12 23:36 file1.txt
```

Command: **chgrp**

```
mrsanju@MRSANJU:~/Desktop/shellprog$ sudo groupadd class
mrsanju@MRSANJU:~/Desktop/shellprog$ sudo chgrp class file1.txt
mrsanju@MRSANJU:~/Desktop/shellprog$ ll file1.txt
-rw-rw-r-- 1 mrsanju class 61 Sep 12 23:36 file1.txt
```

Command: **chmod**

```
mrsanju@MRSANJU:~/Desktop/shellprog$ ll file2.txt
-rw-rw-r-- 1 mrsanju mrsanju 53 Sep 12 23:39 file2.txt
mrsanju@MRSANJU:~/Desktop/shellprog$ chmod u+x file2.txt
mrsanju@MRSANJU:~/Desktop/shellprog$ ll file2.txt
-rwxr--r-- 1 mrsanju mrsanju 53 Sep 12 23:39 file2.txt*
```

```
mrsanju@MRSANJU:~/Desktop/shellprog$ chmod 444 file2.txt
mrsanju@MRSANJU:~/Desktop/shellprog$ ll file2.txt
-r--r--r-- 1 mrsanju mrsanju 53 Sep 12 23:39 file2.txt
```

Command: **gzip and gunzip**

```
mrsanju@MRSANJU:~$ ls
Desktop  Downloads  mru4.txt  mru6.txt  Pictures  shellclass  snap      Videos
Documents mru3.txt  mru5.txt  Music     Public    shellprog  Templates

mrsanju@MRSANJU:~$ gzip mru3.txt
mrsanju@MRSANJU:~$ ls
Desktop  Downloads  mru4.txt  mru6.txt  Pictures  shellclass  snap      Videos
Documents mru3.txt.gz mru5.txt  Music     Public    shellprog  Templates

mrsanju@MRSANJU:~$ gunzip mru3.txt.gz
mrsanju@MRSANJU:~$ ls
Desktop  Downloads  mru4.txt  mru6.txt  Pictures  shellclass  snap      Videos
Documents mru3.txt  mru5.txt  Music     Public    shellprog  Templates
```

Command: tar cf, tar tf, tar xf

```
mrsanju@MRSANJU:~$ tar cf testarchive mru5.txt mru6.txt
mrsanju@MRSANJU:~$ ls
Desktop    Downloads  mru4.txt  mru6.txt  Pictures  shellclass  snap      testarchive
Documents  mru3.txt  mru5.txt  Music     Public    shellprog   Templates Videos
mrsanju@MRSANJU:~$ tar tf testarchive
mru5.txt
mru6.txt
mrsanju@MRSANJU:~$ tar xf testarchive
mrsanju@MRSANJU:~$ ls
Desktop    Downloads  mru4.txt  mru6.txt  Pictures  shellclass  snap      testarchive
Documents  mru3.txt  mru5.txt  Music     Public    shellprog   Templates Videos
```

Command: date

```
mrsanju@MRSANJU:~$ date
Thu Oct 10 09:01:54 AM IST 2024
```

Command: cal

```
mrsanju@MRSANJU:~$ cal
      October 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
```

Command: `cal ||more`

```
mrsanju@MRSANJU:~$ cal 2024||more
2024

    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           1  2  3           1  2
  7  8  9 10 11 12 13    4  5  6  7  8  9 10    3  4  5  6  7  8  9
14 15 16 17 18 19 20   11 12 13 14 15 16 17   10 11 12 13 14 15 16
21 22 23 24 25 26 27   18 19 20 21 22 23 24   17 18 19 20 21 22 23
28 29 30 31           25 26 27 28 29           24 25 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  2  3  4  5  6           1  2  3  4           1
  7  8  9 10 11 12 13    5  6  7  8  9 10 11    2  3  4  5  6  7  8
14 15 16 17 18 19 20   12 13 14 15 16 17 18    9 10 11 12 13 14 15
21 22 23 24 25 26 27   19 20 21 22 23 24 25   16 17 18 19 20 21 22
28 29 30           26 27 28 29 30 31           23 24 25 26 27 28 29
                                     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  2  3  4  5  6           1  2  3           1  2  3  4  5  6  7
  7  8  9 10 11 12 13    4  5  6  7  8  9 10    8  9 10 11 12 13 14
14 15 16 17 18 19 20   11 12 13 14 15 16 17   15 16 17 18 19 20 21
21 22 23 24 25 26 27   18 19 20 21 22 23 24   22 23 24 25 26 27 28
28 29 30 31           25 26 27 28 29 30 31   29 30

    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           1  2           1  2  3  4  5  6  7
  6  7  8  9 10 11 12    3  4  5  6  7  8  9    8  9 10 11 12 13 14
13 14 15 16 17 18 19   10 11 12 13 14 15 16   15 16 17 18 19 20 21
20 21 22 23 24 25 26   17 18 19 20 21 22 23   22 23 24 25 26 27 28
27 28 29 30 31       24 25 26 27 28 29 30   29 30 31
```

Command: who

```
mrsanju@MRSANJU:~$ who
mrsanju  seat0          2024-10-10 08:42 (login screen)
mrsanju  tty2           2024-10-10 08:42 (tty2)
```

Command: whoami

```
mrsanju@MRSANJU:~$ whoami
mrsanju
```

Command: tty

```
mrsanju@MRSANJU:~$ tty
/dev/pts/0
```

Command: ls

```
mrsanju@MRSANJU:~$ ls
Desktop  Documents  Downloads  mru3.txt  mru4.txt  mru5.txt  mru6.txt  Music  Pictures  Public  shellclass  shellprog  snap  Templates  testarchive  Videos
```

Command: ls -t

```
mrsanju@MRSANJU:~$ ls -t
dev.txt  testarchive  shellprog  mru5.txt  mru4.txt  mru6.txt  mru3.txt  Desktop  shellclass  Downloads  snap  Documents  Music  Pictures  Public  Templates  Videos
```

Command: **ls -lt**

```
mrsanju@MRSANJU:~$ ls -lt
total 72
-rw-rw-r-- 1 mrsanju mrsanju    0 Oct 10 09:48 dev.txt
-rw-rw-r-- 1 mrsanju mrsanju 10240 Sep 13 00:35 testarchive
drwxrwxr-x 2 mrsanju mrsanju  4096 Sep 13 00:28 shellprog
-rw-rw-r-- 1 mrsanju mrsanju   42 Sep 13 00:28 mru5.txt
-rw-rw-r-- 1 mrsanju mrsanju   33 Sep 13 00:27 mru4.txt
-rw-rw-r-- 1 mrsanju mrsanju   34 Sep 13 00:27 mru6.txt
-rw-rw-r-- 1 mrsanju mrsanju   39 Sep 13 00:26 mru3.txt
drwxr-xr-x 4 mrsanju mrsanju  4096 Sep 13 00:23 Desktop
drwxrwxr-x 2 mrsanju mrsanju  4096 Sep 12 23:05 shellclass
drwxr-xr-x 2 mrsanju mrsanju  4096 Sep  1 17:47 Downloads
drwx----- 7 mrsanju mrsanju  4096 Sep  1 17:31 snap
drwxr-xr-x 2 mrsanju mrsanju  4096 Aug  5 21:31 Documents
drwxr-xr-x 2 mrsanju mrsanju  4096 Aug  5 21:31 Music
drwxr-xr-x 2 mrsanju mrsanju  4096 Aug  5 21:31 Pictures
drwxr-xr-x 2 mrsanju mrsanju  4096 Aug  5 21:31 Public
drwxr-xr-x 2 mrsanju mrsanju  4096 Aug  5 21:31 Templates
drwxr-xr-x 2 mrsanju mrsanju  4096 Aug  5 21:31 Videos
```

Command: **ls -a**

```
mrsanju@MRSANJU:~$ ls -a
. .bash_history .bashrc .config dev.txt Downloads .local mru4.txt mru6.txt Pictures Public shellprog .ssh Templates Videos
.. .bash_logout .cache Desktop Documents .gnupg mru3.txt mru5.txt Music .profile shellclass snap .sudo_as_admin_successful testarchive
```

Command: **ls -h**

```
mrsanju@MRSANJU:~$ ls -h
Desktop  Downloads  mru5.txt  Pictures  shellprog  testarchive
dev.txt  mru3.txt  mru6.txt  Public    snap       Videos
Documents mru4.txt  Music    shellclass Templates
```

Command: **ls -la**

```
mrsanju@MRSANJU:~$ ls -la
total 116
drwxr-x--- 18 mrsanju mrsanju 4096 Oct 10 09:48 .
drwxr-xr-x  3 root    root    4096 Aug  5 21:28 ..
-rw-----  1 mrsanju mrsanju 1039 Oct 10 08:46 .bash_history
-rw-r--r--  1 mrsanju mrsanju  220 Mar 31 2024 .bash_logout
-rw-r--r--  1 mrsanju mrsanju 3771 Mar 31 2024 .bashrc
drwx----- 13 mrsanju mrsanju 4096 Sep 28 23:20 .cache
drwx----- 15 mrsanju mrsanju 4096 Sep 28 23:20 .config
drwxr-xr-x  4 mrsanju mrsanju 4096 Sep 13 00:23 Desktop
-rw-rw-r--  1 mrsanju mrsanju    0 Oct 10 09:48 dev.txt
drwxr-xr-x  2 mrsanju mrsanju 4096 Aug  5 21:31 Documents
drwxr-xr-x  2 mrsanju mrsanju 4096 Sep  1 17:47 Downloads
drwx-----  2 mrsanju mrsanju 4096 Oct 10 09:29 .gnupg
drwx-----  4 mrsanju mrsanju 4096 Aug  5 21:31 .local
-rw-rw-r--  1 mrsanju mrsanju   39 Sep 13 00:26 mru3.txt
-rw-rw-r--  1 mrsanju mrsanju   33 Sep 13 00:27 mru4.txt
-rw-rw-r--  1 mrsanju mrsanju   42 Sep 13 00:28 mru5.txt
-rw-rw-r--  1 mrsanju mrsanju   34 Sep 13 00:27 mru6.txt
drwxr-xr-x  2 mrsanju mrsanju 4096 Aug  5 21:31 Music
drwxr-xr-x  2 mrsanju mrsanju 4096 Aug  5 21:31 Pictures
-rw-r--r--  1 mrsanju mrsanju  807 Mar 31 2024 .profile
drwxr-xr-x  2 mrsanju mrsanju 4096 Aug  5 21:31 Public
drwxrwxr-x  2 mrsanju mrsanju 4096 Sep 12 23:05 shellclass
drwxrwxr-x  2 mrsanju mrsanju 4096 Sep 13 00:28 shellprog
drwx-----  7 mrsanju mrsanju 4096 Sep  1 17:31 snap
drwx-----  2 mrsanju mrsanju 4096 Aug  5 21:31 .ssh
-rw-r--r--  1 mrsanju mrsanju    0 Aug  5 21:34 .sudo_as_admin_successful
drwxr-xr-x  2 mrsanju mrsanju 4096 Aug  5 21:31 Templates
-rw-rw-r--  1 mrsanju mrsanju 10240 Sep 13 00:35 testarchive
drwxr-xr-x  2 mrsanju mrsanju 4096 Aug  5 21:31 Videos
```

Command: **ls -lh**

```
mrsanju@MRSANJU:~$ ls -lh
total 72K
drwxr-xr-x 4 mrsanju mrsanju 4.0K Sep 13 00:23 Desktop
-rw-rw-r-- 1 mrsanju mrsanju    0 Oct 10 09:48 dev.txt
drwxr-xr-x 2 mrsanju mrsanju 4.0K Aug  5 21:31 Documents
drwxr-xr-x 2 mrsanju mrsanju 4.0K Sep  1 17:47 Downloads
-rw-rw-r-- 1 mrsanju mrsanju   39 Sep 13 00:26 mru3.txt
-rw-rw-r-- 1 mrsanju mrsanju   33 Sep 13 00:27 mru4.txt
-rw-rw-r-- 1 mrsanju mrsanju   42 Sep 13 00:28 mru5.txt
-rw-rw-r-- 1 mrsanju mrsanju   34 Sep 13 00:27 mru6.txt
drwxr-xr-x 2 mrsanju mrsanju 4.0K Aug  5 21:31 Music
drwxr-xr-x 2 mrsanju mrsanju 4.0K Aug  5 21:31 Pictures
drwxr-xr-x 2 mrsanju mrsanju 4.0K Aug  5 21:31 Public
drwxrwxr-x 2 mrsanju mrsanju 4.0K Sep 12 23:05 shellclass
drwxrwxr-x 2 mrsanju mrsanju 4.0K Sep 13 00:28 shellprog
drwx----- 7 mrsanju mrsanju 4.0K Sep  1 17:31 snap
drwxr-xr-x 2 mrsanju mrsanju 4.0K Aug  5 21:31 Templates
-rw-rw-r-- 1 mrsanju mrsanju 10K Sep 13 00:35 testarchive
drwxr-xr-x 2 mrsanju mrsanju 4.0K Aug  5 21:31 Videos
```


Command: **ls -R**

```
mrsanju@MRSANJU:~$ ls -R
.:
Desktop dev.txt Documents Downloads mru3.txt mru4.txt mru5.txt mru6.txt Music Pictures Public shellclass shellprog snap Templates testarchive Videos

./Desktop:
shell100 shellprog

./Desktop/shell100:
BCA.txt

./Desktop/shellprog:
file1.txt file2.txt file3.txt file4.txt file5.txt file6.txt file7.txt

./Documents:

./Downloads:
google-chrome-stable_current_amd64.deb IMG-20240901-WA0002.jpg

./Music:

./Pictures:

./Public:

./shellclass:

./shellprog:
file1.txt file2.txt file3.txt file4.txt file5.txt file6.txt file7.txt

./snap:
brave firefox firmware-updater snapd-desktop-integration snap-store

./snap/brave:
440 442 common current

./snap/brave/440:

./snap/brave/442:

./snap/brave/common:
```

```
./snap/firefox/4848:
./snap/firefox/common:
./snap/firmware-updater:
127 common current
./snap/firmware-updater/127:
./snap/firmware-updater/common:
./snap/snapd-desktop-integration:
178 247 common current
./snap/snapd-desktop-integration/178:
Desktop Documents Downloads Music Pictures Public Templates Videos
./snap/snapd-desktop-integration/178/Desktop:
./snap/snapd-desktop-integration/178/Documents:
./snap/snapd-desktop-integration/178/Downloads:
./snap/snapd-desktop-integration/178/Music:
./snap/snapd-desktop-integration/178/Pictures:
./snap/snapd-desktop-integration/178/Public:
./snap/snapd-desktop-integration/178/Templates:
./snap/snapd-desktop-integration/178/Videos:
./snap/snapd-desktop-integration/247:
Desktop Documents Downloads Music Pictures Public Templates Videos
./snap/snapd-desktop-integration/247/Desktop:
./snap/snapd-desktop-integration/247/Documents:
```

```
./snap/snapd-desktop-integration/247:
Desktop Documents Downloads Music Pictures Public Templates Videos
./snap/snapd-desktop-integration/247/Desktop:
./snap/snapd-desktop-integration/247/Documents:
./snap/snapd-desktop-integration/247/Downloads:
./snap/snapd-desktop-integration/247/Music:
./snap/snapd-desktop-integration/247/Pictures:
./snap/snapd-desktop-integration/247/Public:
./snap/snapd-desktop-integration/247/Templates:
./snap/snapd-desktop-integration/247/Videos:
./snap/snapd-desktop-integration/common:
./snap/snap-store:
1173 1218 common current
./snap/snap-store/1173:
./snap/snap-store/1218:
./snap/snap-store/common:
./Templates:
./Videos:
_
```

Command: echo

```
mrsanju@MRSANJU:~$ echo "Hi, My name is Sanju"  
Hi, My name is Sanju
```

Command: wc

```
mrsanju@MRSANJU:~$ wc mru6.txt  
1  5 34 mru6.txt
```

Command: mkdir

```
mrsanju@MRSANJU:~$ ls  
AAA      Documents  mru3.txt  mru6.txt  Public    snap      Videos  
Desktop  Downloads  mru4.txt  Music     shellclass Templates  
dev.txt   John       mru5.txt  Pictures  shellprog testarchive
```

Command: rmdir

```
mrsanju@MRSANJU:~$ ls  
Desktop    Downloads  mru4.txt  Music     shellclass  Templates  
dev.txt     John       mru5.txt  Pictures  shellprog   testarchive  
Documents  mru3.txt   mru6.txt  Public    snap        Videos
```

Command: pwd

```
mrsanju@MRSANJU:~$ pwd  
/home/mrsanju
```

Command: pwd

```
mrsanju@MRSANJU:~$ $HOME  
bash: /home/mrsanju: Is a directory
```

Command: PATH

```
mrsanju@MRSANJU:~$ $PATH  
bash: /usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/u  
sr/local/games:/snap/bin:/snap/bin: No such file or directory
```

Command: HOME

```
mrsanju@MRSANJU:~$ $HOME  
bash: /home/mrsanju: Is a directory
```

Command: diff

```
mrsanju@MRSANJU:~$ diff mru5.txt mru6.txt  
1c1  
< My favroite place to visit is Swizerland.  
---  
> My hobbies are playing badminton.
```

Command: cmp

```
mrsanju@MRSANJU:~$ cmp mru5.txt mru6.txt  
mru5.txt mru6.txt differ: byte 4, line 1
```

Command: comm

```
mrsanju@MRSANJU:~$ comm mru5.txt mru6.txt
My favroite place to visit is Swizerland.
      My hobbies are playing badminton.
```

Command: head

```
mrsanju@MRSANJU:~$ head -n 3 fruit.txt
apple
grapes
kiwi
```

Command: tail

```
mrsanju@MRSANJU:~$ tail -n 2 fruit.txt
mango
banana
```

Command: sort

```
mrsanju@MRSANJU:~$ cat cars.txt
bmw
mercedez
audi
mahindra
tata

mrsanju@MRSANJU:~$ sort cars.txt

audi
bmw
mahindra
mercedez
tata
```

Command: cp

```
mrsanju@MRSANJU:~$ cp fruit.txt cars.txt
mrsanju@MRSANJU:~$ cat cars.txt
apple
grapes
kiwi
orange
mango
banana
```

Command: passwd

```
mrsanju@MRSANJU:~$ passwd
Changing password for mrsanju.
Current password:
New password:
Retype new password:
passwd: password updated successfully
```

Command: cat

```
mrsanju@MRSANJU:~$ cat mru5.txt
My favroite place to visit is Swizerland.
```
