Paste the command that you require to achieve steps mentioned below and paste the screenshot whenever needed.

(You can save a copy of this file and modify it directly!)

1) Make a directory on desktop named "Demo"

2) Make 10 files demo1,demo2,demo3,…,demo10 inside Demo directory.

3) Add new user named "testuser"

4) Verify that user has been added or not? Mention the steps that you have followed to verify!

```
─[✗]─[dev@parrot]─[~]
  └─ $cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
```

```
miredo-server:x:128:65534::/var/run/miredo-server/usr/sbin/nologin
iodine:x:129:65534::/run/iodine:/usr/sbin/nologin
miredo:x:130:65534::/var/run/miredo:/usr/sbin/nologin
redis:x:131:137::/var/lib/redis:/usr/sbin/nologin
inetsim:x:132:138::/var/lib/inetsim:/usr/sbin/nologin
gvm:x:133:140::/var/lib/openvas:/usr/sbin/nologin
beef-xss:x:134:141::/var/lib/beef-xss:/usr/sbin/nologin
dev:x:1000:1003:dev:/home/dev:/bin/bash
u1:x:1001:1004:u1,,9898,98998,888,88:/home/u1:/bin/bash
testuser:x:1002:1005:testuser,pass1234,,:/home/testuser:/bin/bash
```

5) Login as testuser

```
─[dev@parrot]─[~]
  └─ $su testuser
Password:
─[testuser@parrot]─[/home/dev]
  └─ $cd Dem
```

6) Create new file named "testuserfile" inside Demo directory.

```
drwxr-xr-x 1 dev dev      14 Jun  6 18:18  vs_code
─[dev@parrot]─[~/Desktop]
  └─ $sudo chmod o+w Demo
─[dev@parrot]─[~/Desktop]
  └─ $ls -l
total 2504
drwxr-xrwx 1 dev dev      182 Jun 14 00:08  Demo
-rwxr-xr-x 1 dev dev    12084 Feb 15  2020  mate-screenshot.desktop
-rwxr-xr-x 1 dev dev     2068 May  2  2022  README.license
-rw-r--r-- 1 dev dev   583829 Jun 14 00:10 'Screenshot at 2024-06-14 00-10-51.png'
-rw-r--r-- 1 dev dev   581004 Jun 14 00:17 'Screenshot at 2024-06-14 00-17-51.png'
-rw-r--r-- 1 dev dev   701643 Jun 14 00:18 'Screenshot at 2024-06-14 00-18-08.png'
-rw-r--r-- 1 dev dev   644007 Jun 14 00:18 'Screenshot at 2024-06-14 00-18-15.png'
-rw-r--r-- 1 dev dev    24691 Jun 14 01:45 'Screenshot at 2024-06-14 01-45-28.png'
drwxr-xr-x 1 dev dev       14 Jun  6 18:18  vs_code
```

```
─[✗]─[dev@parrot]─[~/Desktop]
  └─ $su testuser
Password:
─[testuser@parrot]─[/home/dev/Desktop]
  └─ $ls -l
total 2504
drwxr-xrwx 1 dev dev      182 Jun 14 00:08  Demo
-rwxr-xr-x 1 dev dev    12084 Feb 15  2020  mate-screenshot.desktop
-rwxr-xr-x 1 dev dev     2068 May  2  2022  README.license
-rw-r--r-- 1 dev dev   583829 Jun 14 00:10 'Screenshot at 2024-06-14 00-10-51.png'
-rw-r--r-- 1 dev dev   581004 Jun 14 00:17 'Screenshot at 2024-06-14 00-17-51.png'
-rw-r--r-- 1 dev dev   701643 Jun 14 00:18 'Screenshot at 2024-06-14 00-18-08.png'
-rw-r--r-- 1 dev dev   644007 Jun 14 00:18 'Screenshot at 2024-06-14 00-18-15.png'
-rw-r--r-- 1 dev dev    24691 Jun 14 01:45 'Screenshot at 2024-06-14 01-45-28.png'
drwxr-xr-x 1 dev dev       14 Jun  6 18:18  vs_code
─[testuser@parrot]─[/home/dev/Desktop]
  └─ $cd Demo/
─[testuser@parrot]─[/home/dev/Desktop/Demo]
  └─ $touch testuserfile
─[testuser@parrot]─[/home/dev/Desktop/Demo]
  └─ $ls -l
total 0
-rw-r--r-- 1 dev       dev      0 Jun 14 00:08 demo10.txt
-rw-r--r-- 1 dev       dev      0 Jun 14 00:08 demo1.txt
-rw-r--r-- 1 dev       dev      0 Jun 14 00:08 demo2.txt
-rw-r--r-- 1 dev       dev      0 Jun 14 00:08 demo3.txt
-rw-r--r-- 1 dev       dev      0 Jun 14 00:08 demo4.txt
-rw-r--r-- 1 dev       dev      0 Jun 14 00:08 demo5.txt
-rw-r--r-- 1 dev       dev      0 Jun 14 00:08 demo6.txt
-rw-r--r-- 1 dev       dev      0 Jun 14 00:08 demo7.txt
-rw-r--r-- 1 dev       dev      0 Jun 14 00:08 demo8.txt
-rw-r--r-- 1 dev       dev      0 Jun 14 00:08 demo9.txt
-rw-r--r-- 1 testuser testuser 0 Jun 14 02:02 testuserfile
```

7) Exit from testuser

```
┌─[testuser@parrot]─[/home/dev/Desktop/Demo]
└──• $exit
exit
┌─[dev@parrot]─[~/Desktop]
└──• $
```

8) Change ownership of first 5 files (demo1, demo2, … demo5) to testuser

```
┌─[dev@parrot]─[~/Desktop/Demo]
└──• $sudo chown testuser demo[1.2..3.4.5].txt
┌─[dev@parrot]─[~/Desktop/Demo]
└──• $ls -l
total 0
-rw-r--r-- 1 dev       dev       0 Jun 14 00:08 demo10.txt
-rw-r--r-- 1 testuser  dev       0 Jun 14 00:08 demo1.txt
-rw-r--r-- 1 testuser  dev       0 Jun 14 00:08 demo2.txt
-rw-r--r-- 1 testuser  dev       0 Jun 14 00:08 demo3.txt
-rw-r--r-- 1 testuser  dev       0 Jun 14 00:08 demo4.txt
-rw-r--r-- 1 testuser  dev       0 Jun 14 00:08 demo5.txt
-rw-r--r-- 1 dev       dev       0 Jun 14 00:08 demo6.txt
-rw-r--r-- 1 dev       dev       0 Jun 14 00:08 demo7.txt
-rw-r--r-- 1 dev       dev       0 Jun 14 00:08 demo8.txt
-rw-r--r-- 1 dev       dev       0 Jun 14 00:08 demo9.txt
-rw-r--r-- 1 testuser  testuser  0 Jun 14 02:02 testuserfile
┌─[dev@parrot]─[~/Desktop/Demo]
└──• $
```

9) Create group named "HR"

```
┌─[dev@parrot]─[~/Desktop/Demo]
└──• $sudo groupadd HR
groupadd: group 'HR' already exists
┌─[x]─[dev@parrot]─[~/Desktop/Demo]
└──• $cat /etc/group | grep HR
HR:x:1006:
┌─[dev@parrot]─[~/Desktop/Demo]
└──• $
```

10) Add testuser and your current user to this group ("HR")

```
┌─[dev@parrot]─[~/Desktop/Demo]
└──➤ $sudo usermod -aG HR dev

┌─[dev@parrot]─[~/Desktop/Demo]
└──➤ $
┌─[dev@parrot]─[~/Desktop/Demo]
└──➤ $sudo usermod -aG HR testuser
┌─[dev@parrot]─[~/Desktop/Demo]
└──➤ $groups testuser
testuser : testuser HR
┌─[dev@parrot]─[~/Desktop/Demo]
└──➤ $groups dev
dev : dev cdrom floppy sudo audio dip video plugdev netdev bluetooth lpadmin scanner docker HR
┌─[dev@parrot]─[~/Desktop/Demo]
└──➤ $
```

11) Remove read permission from all groups for last five files inside Demo directory (demo6, demo7, … , demo10)

```
┌─[✗]─[dev@parrot]─[~/Desktop/Demo]
└──➤ $sudo chmod go-r demo[6.7.8.9.10].txt
┌─[dev@parrot]─[~/Desktop/Demo]
└──➤ $ls -l
total 0
-rw-r--r-- 1 dev       dev      0 Jun 14 00:08 demo10.txt
-rw------- 1 testuser dev       0 Jun 14 00:08 demo1.txt
-rw-r--r-- 1 testuser dev       0 Jun 14 00:08 demo2.txt
-rw-r--r-- 1 testuser dev       0 Jun 14 00:08 demo3.txt
-rw-r--r-- 1 testuser dev       0 Jun 14 00:08 demo4.txt
-rw-r--r-- 1 testuser dev       0 Jun 14 00:08 demo5.txt
-rw------- 1 dev       dev      0 Jun 14 00:08 demo6.txt
-rw------- 1 dev       dev      0 Jun 14 00:08 demo7.txt
-rw------- 1 dev       dev      0 Jun 14 00:08 demo8.txt
-rw------- 1 dev       dev      0 Jun 14 00:08 demo9.txt
-rw-r--r-- 1 testuser testuser 0 Jun 14 02:02 testuserfile
┌─[dev@parrot]─[~/Desktop/Demo]
└──➤ $
```

12) Delete first 5 files from demo directory with minimal number of commands.

```
 -rw-r--r-- 1 testuser testuser 0 Jun 14 02:02 testuserfile
 ┌─[dev@parrot]─[~/Desktop/Demo]
 └──➤ $rm -f demo{1..5}.txt
 ┌─[dev@parrot]─[~/Desktop/Demo]
 └──➤ $ls -l
total 0
-rw-r--r-- 1 dev       dev       0 Jun 14 00:08 demo10.txt
-rw------- 1 dev       dev       0 Jun 14 00:08 demo6.txt
-rw------- 1 dev       dev       0 Jun 14 00:08 demo7.txt
-rw------- 1 dev       dev       0 Jun 14 00:08 demo8.txt
-rw------- 1 dev       dev       0 Jun 14 00:08 demo9.txt
-rw-r--r-- 1 testuser testuser 0 Jun 14 02:02 testuserfile
 ┌─[dev@parrot]─[~/Desktop/Demo]
 └──➤ $
```

13) Remove group "HR" and verify it.

```
-rw-r--r-- 1 testuser testuser 0 Jun 14 02:0
 ┌─[dev@parrot]─[~/Desktop/Demo]
 └──➤ $sudo groupdel HR
 ┌─[dev@parrot]─[~/Desktop/Demo]
 └──➤ $cat /etc/group | HR
bash: HR: command not found
 ┌─[✗]─[dev@parrot]─[~/Desktop/Demo]
 └──➤ $cat /etc/group | grep HR
 ┌─[✗]─[dev@parrot]─[~/Desktop/Demo]
 └──➤ $
```

14) Remove "testuser"

```
 ┌─[dev@parrot]─[~/Desktop/Demo]
 └──➤ $sudo userdel testuser
[sudo] password for dev:
Sorry, try again.
[sudo] password for dev:
 ┌─[dev@parrot]─[~/Desktop/Demo]
 └──➤ $cat /etc/user | grep testuser
cat: /etc/user: No such file or directory
 ┌─[✗]─[dev@parrot]─[~/Desktop/Demo]
 └──➤ $cat /etc/passwd | grep testuser
 ┌─[✗]─[dev@parrot]─[~/Desktop/Demo]
 └──➤ $
```

15) Remove Demo directory.

Paste your cheat sheet here:

File Operations:

• ls: List directory contents.

• cd: Change directory.

• pwd: Print working directory.

• mkdir: Create a directory.

• touch: Create an empty file.

• rm: Remove files or directories.

• chmod: Change file permissions.

• chown: Change file owner and group.

System Information:

• whoami: Print the current user.

User and Group Management:

- useradd: Add a new user.

- userdel: Delete a user.

- groupadd: Add a new group.

- groupdel: Delete a group.

- passwd: Change user password.

- su: Switch user.

- sudo: Execute a command as another user (often root)

Write conclusion in few lines for above activity and today's session:

In this practical I learn various command of linux which is responsible for basic operation.