Pwd :

gray@gray:~$ pwd

/home/gray

mkdir :

gray@gray:~/Master$ mkdir and

gray@gray:~/Master$ ls

<u>and</u> exp_z_1.txt skill_1.sh xor

cd :

gray@gray:~$ cd Master/

gray@gray:~/Master$ pwd

/home/gray/Master

touch :

gray@gray:~/Master$ touch exp_1.txt

gray@gray:~/Master$ ls

exp_1.txt

gray@gray:~/Master$ touch exp_x_1.txt exp_y_1.txt

ls :

gray@gray:~/Master$ ls

exp_1.txt exp_x_1.txt exp_y_1.txt

cat :

gray@gray:~/Master$ cat exp_y_1.txt exp_x_1.txt

Namaste

World

gray@gray:~/Master$ cat > nor.txt

hello world

gray@gray:~/Master$ cat >> nor.txt

extc ipmv ccn anfl

gray@gray:~/Master$ cat nor.txt exp_z_1.txt

hello world

world

mv :

gray@gray:~/Master$ ls

exp_1.txt exp_y_1.txt exp_z_1.txt

gray@gray:~/Master$ mkdir xor

gray@gray:~/Master$ mv exp_1.txt xor

gray@gray:~/Master$ ls

exp_y_1.txt exp_z_1.txt xor

grep :

gray@gray:~/Master$ grep a *.txt

exp_y_1.txt:N**a**m**a**ste

date :

gray@gray:~/Master$ date

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time :

gray@gray:~/Master$ time
real   0m0.000s
user   0m0.000s
sys   0m0.000s

free :

gray@gray:~/Master$ free
          total   used   free   shared buff/cache available
Mem: 7856836   1476656   1843432   344060   4536748   5723780
Swap: 2097148   0   2097148

echo :

gray@gray:~/Master$ echo extc
extc

ps :

gray@gray:~/Master$ ps
   PID TTY   TIME CMD
  3544 pts/1   00:00:00 bash
 20687 pts/1   00:00:00 ps

cal :

gray@gray:~/Master$ cal
    January 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

wc :

gray@gray:~/Master$ wc exp_z_1.txt
1 1 6 exp_z_1.txt

chmod :

gray@gray:~/Master$ touch skill_1.sh
gray@gray:~/Master$ ./skill_1.sh
bash: ./skill_1.sh: Permission denied
gray@gray:~/Master$ chmod u+x skill_1.sh
gray@gray:~/Master$ ls -l skill_1.sh
-rwxrw-r-- 1 gray gray 16 Jan 31 17:05 skill_1.sh
gray@gray:~/Master$ ./skill_1.sh
Hello Extc

chown :

gray@gray:~/Master$ sudo adduser nxon
gray@gray:~/Master$ sudo usermod -aG sudo nxon

gray@gray:~/Master$ sudo chown nxon:users xnor.txt
gray@gray:~/Master$ ls -l xnor.txt
-rw-rw-r-- 1 nxon users 0 Jan 31 17:38 xnor.txt

umask :

gray@gray:~/Master$ umask
0002
gray@gray:~/Master$ umask -S
u=rwx,g=rwx,o=rx

gray@gray: ~/Master

```
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
gray@gray:~/Master$ chown nxon xnor.txt
chown: changing ownership of 'xnor.txt': Operation not permitted
gray@gray:~/Master$ ls -l xnor.txt
-rw-rw-r-- 1 gray gray 0 Jan 31 17:38 xnor.txt
gray@gray:~/Master$ sudo usermod -aG sudo nxon
gray@gray:~/Master$ chown nxon xnor.txt
chown: changing ownership of 'xnor.txt': Operation not permitted
gray@gray:~/Master$ ls -l xnor.txt
-rw-rw-r-- 1 gray gray 0 Jan 31 17:38 xnor.txt
gray@gray:~/Master$ ^[[200~sudo chown john:users xnor.txt
sudo: command not found
gray@gray:~/Master$ sudo chown nxon:users xnor.txt
gray@gray:~/Master$ ls -l xnor.txt
-rw-rw-r-- 1 nxon users 0 Jan 31 17:38 xnor.txt
gray@gray:~/Master$ ^C
gray@gray:~/Master$ ls -l skill_1.sh
-rwxrw-r-- 1 gray gray 16 Jan 31 17:05 skill_1.sh
gray@gray:~/Master$ umask
0002
gray@gray:~/Master$ umask -s
bash: umask: -s: invalid option
umask: usage: umask [-p] [-S] [mode]
gray@gray:~/Master$ umask -S
u=rwx,g=rwx,o=rx
gray@gray:~/Master$ cat >> nor.txt
extc ipmv ccn anfl
^C
gray@gray:~/Master$ cat  nor.txt
hello world
extc ipmv ccn anfl
gray@gray:~/Master$
```

gray@gray: ~/Master

```
Creating home directory `/home/nxon' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password fails the dictionary check - it is too simplistic/systematic
Retype new password:
Sorry, passwords do not match.
New password:
BAD PASSWORD: The password fails the dictionary check - it is too simplistic/systematic
Retype new password:
passwd: password updated successfully
Changing the user information for nxon
Enter the new value, or press ENTER for the default
        Full Name []: mihir.m.gosavi
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
gray@gray:~/Master$ chown nxon xnor.txt
chown: changing ownership of 'xnor.txt': Operation not permitted
gray@gray:~/Master$ ls -l xnor.txt
-rw-rw-r-- 1 gray gray 0 Jan 31 17:38 xnor.txt
gray@gray:~/Master$ sudo usermod -aG sudo nxon
gray@gray:~/Master$ chown nxon xnor.txt
chown: changing ownership of 'xnor.txt': Operation not permitted
gray@gray:~/Master$ ls -l xnor.txt
-rw-rw-r-- 1 gray gray 0 Jan 31 17:38 xnor.txt
gray@gray:~/Master$ ^[[200~sudo chown john:users xnor.txt
sudo: command not found
gray@gray:~/Master$ sudo chown nxon:users xnor.txt
gray@gray:~/Master$ ls -l xnor.txt
-rw-rw-r-- 1 nxon users 0 Jan 31 17:38 xnor.txt
gray@gray:~/Master$ ^C
gray@gray:~/Master$ ls -l skill_1.sh
-rwxrw-r-- 1 gray gray 16 Jan 31 17:05 skill_1.sh
gray@gray:~/Master$ umask
```

gray@gray: ~/Master

```
gray@gray:~/Master$ ls
and   exp_z_1.txt  skill_1.sh   xor
gray@gray:~/Master$ ps
    PID TTY          TIME CMD
   3544 pts/1    00:00:00 bash
  20687 pts/1    00:00:00 ps
gray@gray:~/Master$ ^C
gray@gray:~/Master$ cat > nor.txt
hello world
^C
gray@gray:~/Master$ cat nor.txt
hello world
gray@gray:~/Master$ cat >> nor.txt
!!!!!^C
gray@gray:~/Master$ cat nor.txt
hello world
gray@gray:~/Master$ cat nor.txt exp_z_1.txt
hello world
world
gray@gray:~/Master$ ^C
gray@gray:~/Master$ touch xnor.txt
gray@gray:~/Master$ ls -l xnor.txt
-rw-rw-r-- 1 gray gray 0 Jan 31 17:38 xnor.txt
gray@gray:~/Master$ chown mihir xnor.txt
chown: invalid user: 'mihir'
gray@gray:~/Master$ sudo adduser EXTC
[sudo] password for gray:
adduser: Please enter a username matching the regular expression configured
via the NAME_REGEX[_SYSTEM] configuration variable.  Use the `--force-badname'
option to relax this check or reconfigure NAME_REGEX.
gray@gray:~/Master$ sudo adduser nxon
Adding user `nxon' ...
Adding new group `nxon' (1001) ...
Adding new user `nxon' (1001) with group `nxon' ...
Creating home directory `/home/nxon' ...
```

gray@gray: ~/Master

```
gray@gray:~/Master$ chmod x+o index.py
chmod: invalid mode: 'x+o'
Try 'chmod --help' for more information.
gray@gray:~/Master$ chmod o+x index.py
gray@gray:~/Master$ ./index.py
bash: ./index.py: Permission denied
gray@gray:~/Master$ chmod u+x index.py
gray@gray:~/Master$ ./index.py
./index.py: line 1: syntax error near unexpected token `"hello world "'
./index.py: line 1: `print("hello world ");'
gray@gray:~/Master$ open index.py
gray@gray:~/Master$ ./index.py
./index.py: line 1: syntax error near unexpected token `'Hello, world!''
./index.py: line 1: `print('Hello, world!')'
gray@gray:~/Master$ touch skill_1.sh
gray@gray:~/Master$ ./skill_1.sh
bash: ./skill_1.sh: Permission denied
gray@gray:~/Master$ chmod u+x skill_1.sh
gray@gray:~/Master$ ./skill_1.sh
gray@gray:~/Master$ nano skill_1.sh
gray@gray:~/Master$ ./skill_1.sh
Hello Extc
gray@gray:~/Master$ ls
exp_z_1.txt  index.py  skill_1.sh   xor
gray@gray:~/Master$ mkdir and
gray@gray:~/Master$ ls
and   exp_z_1.txt  index.py  skill_1.sh   xor
gray@gray:~/Master$ rm index.py
gray@gray:~/Master$ ls
and   exp_z_1.txt  skill_1.sh   xor
gray@gray:~/Master$ ^C
gray@gray:~/Master$ ls
and   exp_z_1.txt  skill_1.sh   xor
gray@gray:~/Master$ ps
    PID TTY          TIME CMD
```

```
gray@gray:~$ cd Master
gray@gray:~/Master$ ls
exp_y_1.txt  exp_z_1.txt  xor
gray@gray:~/Master$ grep a *.txt
exp_y_1.txt:Namaste
gray@gray:~/Master$ rm exp_y_1.txt
gray@gray:~/Master$ ls
exp_z_1.txt  xor
gray@gray:~/Master$ date
Wednesday 31 January 2024 04:56:56 PM IST
gray@gray:~/Master$ time

real    0m0.000s
user    0m0.000s
sys     0m0.000s
gray@gray:~/Master$ free
              total        used        free      shared  buff/cache   available
Mem:        7856836     1476656     1843432      344060     4536748     5723780
Swap:       2097148           0     2097148
gray@gray:~/Master$ echo extc
extc
gray@gray:~/Master$ cal
    January 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

gray@gray:~/Master$ wc exp_z_1.txt
1 1 6 exp_z_1.txt
gray@gray:~/Master$ touch index.py
gray@gray:~/Master$ ./index.py
bash: ./index.py: Permission denied
gray@gray:~/Master$ chmod x+o index.py
```

```
gray@gray:~$ pwd
/home/gray
gray@gray:~$ mkdir Master
gray@gray:~$ cd Master/
gray@gray:~/Master$ pwd
/home/gray/Master
gray@gray:~/Master$ cd
gray@gray:~$ cd Master/
gray@gray:~/Master$ touch exp_1.txt
gray@gray:~/Master$ ls
exp_1.txt
gray@gray:~/Master$ touch exp_x_1.txt exp_y_1.txt
gray@gray:~/Master$ ls
exp_1.txt  exp_x_1.txt  exp_y_1.txt
gray@gray:~/Master$ cat exp_z_1.txt
cat: exp_z_1.txt: No such file or directory
gray@gray:~/Master$ nano exp_y_1.txt
gray@gray:~/Master$ nano exp_x_1.txt
gray@gray:~/Master$ nano exp_y_1.txt
gray@gray:~/Master$ cat exp_y_1.txt exp_x_1.txt
Namaste
world
gray@gray:~/Master$ mv exp_x_1.txt exp_z_1.txt
gray@gray:~/Master$ ls
exp_1.txt  exp_y_1.txt  exp_z_1.txt
gray@gray:~/Master$ mkdir xor
gray@gray:~/Master$ mv exp_1.txt xor
gray@gray:~/Master$ ls
exp_y_1.txt  exp_z_1.txt  xor
gray@gray:~/Master$ cd xor
gray@gray:~/Master/xor$ ls
exp_1.txt
gray@gray:~/Master/xor$ cd
gray@gray:~$ cd ../
gray@gray:/home$ cd
gray@gray:~$ cd Master
```