(1) Directory Operation

```
hyj@ubuntu:~/Desktop$ pwd
/home/hyj/Desktop
hyj@ubuntu:~/Desktop$ cd ~
hyj@ubuntu:~$ mkdir B22040613
hyj@ubuntu:~$ cd B22040613
hyj@ubuntu:~/B22040613$ ls
hyj@ubuntu:~/B22040613$ ls
hyj@ubuntu:~/B22040613$ ls
heyijia
hyj@ubuntu:~/B22040613$ rmdir heyijia
hyj@ubuntu:~/B22040613$ ls
heyijia
hyj@ubuntu:~/B22040613$ ls
hyj@ubuntu:~/B22040613$ ls
hyj@ubuntu:~/B22040613$
```

图 1 Directory Opreation

(2) File operation

```
hyj@ubuntu:~$ touch heyijia.txt
hyj@ubuntu:~$ ls
Desktop Documents Downloads heyijia.txt Music Pictures Public snap Templates Videos
hyj@ubuntu:~$ echo "hello world" > heyijia.txt
hyj@ubuntu:~$ cat heyijia.txt
hello world
hyj@ubuntu:~$ cp heyijia.txt heyijia2.txt
hyj@ubuntu:~$ mv heyijia.txt B22040613.txt
hyj@ubuntu:~$ ls
B22040613.txt Documents heyijia2.txt Pictures snap Videos
Desktop Downloads Music Public Templates
hyj@ubuntu:~$
```

图 2 File Opreation

(3) User Management

Creat new user and switch to the user.

图 3 Creat new user

```
hyj@ubuntu:~$ sudo su root
[sudo] hyj 的密码:
root@ubuntu:/home/hyj# mkdir others
root@ubuntu:/home/hyj# ls
Desktop Downloads others Public Templates
Documents Music Pictures snap Videos
root@ubuntu:/home/hyj# cd others
root@ubuntu:/home/hyj/others# touch awp.txt fn57.txt
root@ubuntu:/home/hyj/others# ls
arawp.txt fn57.txt
```

图 4 User Management

(4) Permission management

```
root@ubun
root@ubuntu:/home/b22040613# chmod 777 demo
root@ubuntu:/home/b22040613# ls -l demp
ls: 无法访问 'demp': 没有那个文件或目录
root@ubuntu:/home/b22040613# ls -l demo
-rwxrwxrwx 1 root root 0 Oct 13 18:55 demo
root@ubuntu:/home/b22040613# chmod a-x demo
root@ubuntu:/home/b22040613# ls -l demo
-rw-rw-rw- 1 root root 0 Oct 13 18:55 demo
root@ubuntu:/home/b22040613# chmod go-w demo
root@ubuntu:/home/b22040613# ls -l demo
-rw-r--r-- 1 root root 0 Oct 13 18:55 demo
root@ubuntu:/home/b22040613# chmod g+w demo
root@ubuntu:/home/b22040613# ls -l demo
-rw-rw-r-- 1 root root 0 Oct 13 18:55 demo
root@ubuntu:/home/b22040613# chmod a= demo
root@ubuntu:/home/b22040613# ls -l demo
     ---- 1 root root 0 Oct 13 18:55 demo
root@ubuntu:/home/b22040613# chmod +t demo
root@ubuntu:/home/b22040613# ls -l demo
     ---T 1 root root 0 Oct 13 18:55 demo
root@ubuntu:/home/b22040613# chmod u+s demo
root@ubuntu:/home/b22040613# ls -l demo
---S----T 1 root root 0 Oct 13 18:55 demo
root@ubuntu:/home/b22040613# chmod u+rx demo
root@ubuntu:/home/b22040613# ls -l demo
-r-s----T 1 root root 0 Oct 13 18:55 demo
root@ubuntu:/home/b22040613# chmod q+rws demo
root@ubuntu:/home/b22040613# ls -l demo
root@ubuntu:/home/b22040613#
```

图 5 Permission management

(5) Other management

Create folder "others" in the main directory of the user, go to the folder, and create two files with the name of any file. Then run the following commands in sequence.

Observe changes in the process. Create a textfile file and make it as follows:

```
root@ubuntu: /home/hyj
root@ubuntu:/home/hyj# tar -czvf backup.tar.gz others
others/
others/fn57.txt
others/backup.tar
others/awp.txt
root@ubuntu:/home/hyj# ls -l
总用量 44
-rw-r--r-- 1 root root 245 Oct 13 19:05
                        4096 Oct 11 20:17 Desktop
drwxr-xr-x 6 hyj
                  hyj
drwxr-xr-x 2 hyj
                  hyj
                        4096 Apr
                                 1
                                     2024 Documents
drwxr-xr-x 2 hyj
                  hyj
                        4096 Jun 11 16:56 Downloads
drwxr-xr-x 2 hyj
                       4096 Mar 31
                                     2024 Music
                  hyj
drwxr-xr-x 2 root root 4096 Oct 13 19:04 others
drwxr-xr-x 2 hyj
                       4096 Mar 31
                                     2024 Pictures
                  hyj
drwxr-xr-x 2 hyj
                  hyj
                       4096 Mar 31
                                     2024 Public
                       4096 Apr
                                     2024 snap
drwx----- 3 hyj
                                 1
                  hyj
drwxr-xr-x 2 hyj
                  hyj
                       4096 Mar 31
                                     2024 Templates
                                     2024 Videos
drwxr-xr-x 2 hyj
                 hyj
                      4096 Mar 31
root@ubuntu:/home/hyj# tar -xzvf backup.tar.gz
others/
others/fn57.txt
others/backup.tar
others/awp.txt
root@ubuntu:/home/hyj# ls-l
ls-l: 未找到命令
root@ubuntu:/home/hyj# ls -l
总用量 44
-rw-r--r-- 1 root root 245 Oct 13 <u>19:05</u>
drwxr-xr-x 6 hyj
                  hyj
                        4096 Oct 11 20:17 Desktop
                        4096 Apr
                                     2024 Documents
drwxr-xr-x 2 hyj
                  hyj
                                 1
drwxr-xr-x 2 hyj
                  hyj
                        4096 Jun 11 16:56 Downloads
drwxr-xr-x 2 hyj
                  hyj
                        4096 Mar 31
                                     2024 Music
drwxr-xr-x 2 root root 4096 Oct 13 19:04 others
drwxr-xr-x 2 hyj
                  hyj
                        4096 Mar 31
                                     2024 Pictures
                       4096 Mar 31
drwxr-xr-x 2 hyj
                                     2024 Public
                  hyj
drwx----- 3 hyj
                  hyj
                        4096 Apr
                                 1
                                     2024 snap
                                     2024 Templates
drwxr-xr-x 2 hyj
                  hyj
                        4096 Mar 31
                  hyj
drwxr-xr-x 2 hyj
                       4096 Mar 31
                                     2024 Videos
root@ubuntu:/home/hyj#
```

图 6 Tar Operation

```
hyj@ubuntu:~/Desktop$ grep '^n' textfile
no, I study in njupt.
hyj@ubuntu:~/Desktop$ grep '\.00$' textfile
this line ends with .00
He is 15. It is 16.00
hyj@ubuntu:~/Desktop$ grep '5\..' textfile
He is 15. It is 16.00
hyj@ubuntu:~/Desktop$ grep '^[wy]' textfile
wy is the short of my name.
hyj@ubuntu:~/Desktop$
```

图 7 Search Operation