(1) Directory Operation

```
zysail@localhost:~$ pwd
/home/zysail
zysail@localhost:~$ cd ~
zysail@localhost:~$ mkdir B21150215
zysail@localhost:~$ cd B21150215
zysail@localhost:~/B21150215$ mkdir 张益帆
zysail@localhost:~/B21150215$ ls
张益帆
zysail@localhost:~/B21150215$ rmdir 张益帆
zysail@localhost:~/B21150215$ ls
zysail@localhost:~/B21150215$ |
```

(2) File operation

```
zysail@localhost:~/B21150215$ cd ~
zysail@localhost:~$ touch 张益帆.txt
zysail@localhost:~$ ls
Algorithms  B21150215  Download  PKUComplier  cs61a  cs61b  csapplab  ics2024  test  xv6-labs-2021  张益帆.txt
zysail@localhost:~$ echo "hello world" > 张益帆.txt
zysail@localhost:~$ cat 张益帆.txt
hello world
zysail@localhost:~$ cp 张益帆.txt 张益帆2.txt
zysail@localhost:~$ mv 张益帆.txt B21150215.txt
zysail@localhost:~$ ls
Algorithms  B21150215  B21150215.txt  Download  PKUComplier  cs61a  cs61b  csapplab  ics2024  test  xv6-labs-2021  张益帆2.txt
```

(3)User Management

```
zysail@localhost:~$ whoami
zysail
zysail@localhost:~$ sudo su root
[sudo] password for zysail:
root@localhost:/home/zysail# groupadd student
root@localhost:/home/zysail# whoami
root
root@localhost:/home/zysail# adduser B21150215
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.
root@localhost:/home/zysail# adduser --force-badname B21150215
Allowing use of questionable username.
Adding user `B21150215' ...
Adding new group `B21150215' (1003) ...
Adding new user `B21150215' (1001) with group `B21150215' ...
Creating home directory `/home/B21150215' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for B21150215
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
root@localhost:/home/zysail# usermod -g student B21150215
root@localhost:/home/zysail# su B21150215
B21150215@localhost:/home/zysail$ cd ~
B21150215@localhost:~$ touch 张益帆.txt
B21150215@localhost:~$ ls -l
total 0
-rw-r--r-- 1 B21150215 student 0 Oct 14 09:54 张益帆.txt
```

(4) Permission management

```
B21150215@localhost:~$ chmod 777 demo
B21150215@localhost:~$ ls -l
total 0
-rwxrwxrwx 1 B21150215 student 0 Oct 14 09:55 demo
-rw-r--r-- 1 B21150215 student 0 Oct 14 09:54 张益帆.txt
B21150215@localhost:~$ chmod  a-x demo
B21150215@localhost:~$ ls -l
total 0
-rw-rw-rw- 1 B21150215 student 0 Oct 14 09:55 demo
-rw-r--r-- 1 B21150215 student 0 Oct 14 09:54 张益帆.txt
B21150215@localhost:~$ chmod  go-w demo
B21150215@localhost:~$ ls -l
total 0
-rw-r--r-- 1 B21150215 student 0 Oct 14 09:55 demo
-rw-r--r-- 1 B21150215 student 0 Oct 14 09:54 张益帆.txt
B21150215@localhost:~$ chmod  g+w demo
B21150215@localhost:~$ ls -l
total 0
-rw-rw-r-- 1 B21150215 student 0 Oct 14 09:55 demo
-rw-r--r-- 1 B21150215 student 0 Oct 14 09:54 张益帆.txt
B21150215@localhost:~$ chmod  a=   demo
B21150215@localhost:~$ ls -l
total 0
---------- 1 B21150215 student 0 Oct 14 09:55 demo
-rw-r--r-- 1 B21150215 student 0 Oct 14 09:54 张益帆.txt
B21150215@localhost:~$ chmod  +t demo
B21150215@localhost:~$ ls -l
total 0
---------T 1 B21150215 student 0 Oct 14 09:55 demo
-rw-r--r-- 1 B21150215 student 0 Oct 14 09:54 张益帆.txt
B21150215@localhost:~$ chmod  u+s demo
B21150215@localhost:~$ ls -l
total 0
---S-----T 1 B21150215 student 0 Oct 14 09:55 demo
-rw-r--r-- 1 B21150215 student 0 Oct 14 09:54 张益帆.txt
B21150215@localhost:~$ chmod  u+rx demo
B21150215@localhost:~$ ls -l
total 0
-r-s-----T 1 B21150215 student 0 Oct 14 09:55 demo
-rw-r--r-- 1 B21150215 student 0 Oct 14 09:54 张益帆.txt
B21150215@localhost:~$ chmod  g+rws demo
B21150215@localhost:~$ ls -l
total 0
-r-srwS--T 1 B21150215 student 0 Oct 14 09:55 demo
-rw-r--r-- 1 B21150215 student 0 Oct 14 09:54 张益帆.txt
```

```
B21150215@localhost:~$ cd others
B21150215@localhost:~/others$ touch file1
B21150215@localhost:~/others$ touch file2
B21150215@localhost:~/others$ cd ..
B21150215@localhost:~$ tar -czvf backup.tar.gz others
others/
others/file2
others/file1
B21150215@localhost:~$ ls
backup.tar.gz  demo   others   张益帆.txt
B21150215@localhost:~$ tar  -xzvf  backup.tar.gz
others/
others/file2
others/file1
B21150215@localhost:~$ ls -l
total 8
-rw-r--r-- 1 B21150215 student  166 Oct 14 09:59 backup.tar.gz
-r-srwS--T 1 B21150215 student    0 Oct 14 09:55 demo
drwxr-xr-x 2 B21150215 student 4096 Oct 14 09:58 others
-rw-r--r-- 1 B21150215 student    0 Oct 14 09:54 张益帆.txt
B21150215@localhost:~$ vim file.txt
B21150215@localhost:~$ grep  '^n'  textfile
>
> grep  '\.00$'  textfile
> ^C
B21150215@localhost:~$ grep  '^n'  file.txt
> ^C
B21150215@localhost:~$ grep  '^n'  file.txt
no, I study in njupt.
B21150215@localhost:~$ grep  '\.00$'  file.txt
this line ends with .00
He is 15. It is 16.00
B21150215@localhost:~$ grep  '5\..'  file.txt
He is 15. It is 16.00
B21150215@localhost:~$ grep  '^[wy]'  file.txt
wy is the short of my name.
```