(1) Directory Operation

Enter the following commands in sequence:

```
$pwd
$cd ~
$mkdir your_studentID
$cd your_studentID
$mkdir your_name
$1s
$rmdir your_name
$1s
```

Save a screenshot of the above command along with the corresponding results, you must have your student number and name.

操作截图:

```
[ omen@zhengbinO1 ~] $ pwd
/home/omen
[ omen@zhengbinO1 ~] $ mkdir B22040821
[ omen@zhengbinO1 ~] $ cd B22040821
[ omen@zhengbinO1 B22040821] $ mkdir 郑斌
[ omen@zhengbinO1 B22040821] $ ls
郑斌
[ omen@zhengbinO1 B22040821] $ rmdir 郑斌
[ omen@zhengbinO1 B22040821] $ ls
[ omen@zhengbinO1 B22040821] $ ls
```

(2) File operation

Enter the following commands in sequence:

```
$cd ~
$touch yourname.txt
$ls
$echo "hello world" > yourname.txt
$cat yourname.txt
$cp yourname.txt yourname2.txt
$mv yourname.txt yourstudentid.txt
$ls
```

Save a screenshot of the above command along with the corresponding results, you must have your student number and name.

操作截图:

```
[ omen@zhengbin01 B22040821] $ cd ~
[ omen@zhengbin01 ~] $ touch 郑斌.txt
[ omen@zhengbin01 ~] $ ls
B22040821 demo.sh 公共 模板 视频 图片 文档 下载 音乐 郑斌.txt 桌面
[ omen@zhengbin01 ~] $ echo "hello world" > 郑斌.txt
[ omen@zhengbin01 ~] $ cat 郑斌.txt
hello world
[ omen@zhengbin01 ~] $ cp 郑斌.txt 郑斌2.txt
[ omen@zhengbin01 ~] $ cp 郑斌.txt 郑斌2.txt
[ omen@zhengbin01 ~] $ cp 郑斌.txt B22040821.txt
cp: 无法获取"郑斌,txt" 的文件状态(stat): 没有那个文件或目录
[ omen@zhengbin01 ~] $ cp 郑斌.txt B22040821.txt
[ omen@zhengbin01 ~] $ ls
B22040821 B22040821.txt demo.sh 公共 模板 视频 图片 文档 下载 音乐 郑斌2.txt 郑斌.txt 桌面
[ omen@zhengbin01 ~] $ ls
B22040821 demo.sh 公共 模板 视频 图片 文档 下载 音乐 郑斌2.txt 郑斌.txt 桌面
[ omen@zhengbin01 ~] $ ls
B22040821 demo.sh 公共 模板 视频 图片 文档 下载 音乐 郑斌2.txt 郑斌.txt 桌面
[ omen@zhengbin01 ~] $ ls
B22040821 B22040821.txt demo.sh 公共 模板 视频 图片 文档 下载 音乐 郑斌2.txt 泉面
[ omen@zhengbin01 ~] $ ls
B22040821 B22040821.txt demo.sh 公共 模板 视频 图片 文档 下载 音乐 郑斌2.txt 桌面
[ omen@zhengbin01 ~] $ ls
B22040821 B22040821.txt demo.sh 公共 模板 视频 图片 文档 下载 音乐 郑斌2.txt 桌面
[ omen@zhengbin01 ~] $ ls
```

(3)User Management

Enter the following commands in sequence:

```
$whoami
$sudo su root
```

Enter the password of the current logged-in user, not the root password, and then enter:

```
#groupadd student
#whoami
#adduser yourstudentID
#usermod -g student yourstudentID
```

Follow the prompts to create the user and add the user to the student group.

Switch to the user.

```
#su yourstudentID
$cd ~
$touch yourname.txt
$1s -1
```

View the properties of the file, including the owner user and the group to which the owner user belongs.

操作截图:

```
[root@zhengbinO1 omen] # groupadd student
[root@zhengbinO1 omen] # whoami
root
[root@zhengbinO1 omen] # adduser B22040821
[root@zhengbinO1 omen] # usermod - g student B22040821
[root@zhengbinO1 omen] # su B22040821
[B22040821@zhengbinO1 omen] $ cd ~
[B22040821@zhengbinO1 ~] $ touch 郑斌.txt
[B22040821@zhengbinO1 ~] $ ls - l
总用量 0
- rw- r-- r-- . 1 B22040821 student 0 10月 14 10:46 郑斌.txt
[B22040821@zhengbinO1 ~] $ ■
```

(4) Permission management

Enter the following commands in sequence:

After entering each line, run ls -l demo to view the result.

操作截图:

```
[ omen@zhengbinO1 ~] $ touch demo
[ omen@zhengbinO1 ~] $ chmod 777 demo
[ omen@zhengbinO1 ~] $ chmod a- x demo
[ omen@zhengbinO1 ~] $ chmod go- w demo
[ omen@zhengbinO1 ~] $ chmod g+w demo
[ omen@zhengbinO1 ~] $ chmod a= demo
[ omen@zhengbinO1 ~] $ chmod +t demo
[ omen@zhengbinO1 ~] $ chmod u+s demo
[ omen@zhengbinO1 ~] $ chmod u+rx demo
[ omen@zhengbinO1 ~] $ chmod g+rws demo
[ omen@zhengbinO1 ~] $ ls - l demo
- r- srwS- - T. 1 omen omen O 10月 14 10:08 demo
[ omen@zhengbinO1 ~] $
```

###(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.

```
$tar -czvf backup.tar.gz others
$1s -1
$tar -xzvf backup.tar.gz
$1s -1
```

Observe changes in the process.

操作截图:

```
[omen@zhengbin01 ~] $ tar - xzvf backup. tar. gz
others/
others/file1.txt
others/file2.txt
[omen@zhengbinO1 ~]$ ls -l
总用量 56
drwxrwxr-x. 2 omen omen 4096 10月 14 09:55 B22040821
- rw- rw- r- - . 1 omen omen
                          12 10月 14 09:58 B22040821.txt
                         163 10月
                                  14 10:17 backup.tar.gz
- rw- rw- r--. 1 omen omen
- r- srwS- - T. 1 omen omen
                           0 10月
                                  14 10:08 demo
                                  12 11: 21 demo. sh
                           1 10月
- rw- rw- r--. 1 omen omen
                                  14 10: 16 others
drwxrwxr-x. 2 omen omen 4096 10月
drwxr-xr-x. 2 omen omen 4096 7月
                                   28 22: 22 公共
drwxr-xr-x. 2 omen omen 4096 7月
                                   28 22:22 模板
drwxr-xr-x. 2 omen omen 4096 7月
                                   28 22:22 视频
drwxr-xr-x. 2 omen omen 4096 7月
                                   28 22: 22 图片
                                   28 22: 22 文档
drwxr-xr-x. 2 omen omen 4096 7月
drwxr-xr-x. 2 omen omen 4096 7月
                                   28 22:22 下载
drwxr-xr-x. 2 omen omen 4096 7月
                                   28 22: 22 音乐
- rw- rw- r- - . 1 omen omen
                          12 10月 14 09:59 郑斌2.txt
drwxr-xr-x. 2 omen omen 4096 7月
                                  28 22: 22 桌面
[omen@zhengbinO1 ~]$ ■
```

Create a textfile file and make it as follows:

```
no, I study in njupt.
this line ends with 00
this line ends with .00
I am 25 years old.
He is 15. It is 16.00
wy is the short of my name.
```

Search for all lines beginning with the character "n" in the file textfile

```
$ grep '^n' textfile
```

Search the textfile for all lines ending in ".00"

```
$ grep '\.00$' textfile
```

Search for all lines in the textfile that contain the number 5, followed by the character ".", followed by any character

```
$ grep '5\..' textfile
```

Search for all lines starting with the characters "w" and "y" in the file textfile

```
$ grep '^[wy]'textfile
```

操作截图:

```
omen@zhengbinO1 ~]$ ls
               <u>back</u>up. tar. gz demo. sh txtfile. txt 模板 图片
322040821
                                                                   下载
                                                                         郑斌2. txt
322040821. txt
               demo
                                                      视频 文档 音乐 桌面
                               others 公共
omen@zhengbinO1 \sim] $ grep '^n' txtfile.txt
no, I study in njupt.
omen@zhengbinO1 ~] $ grep '\.00$' txtfile.txt
this line ends with .00
He is 15. It is 16.00
omen@zhengbinO1 ~]$ grep '5\..' txtfile.txt
He is 15. It is 16.00
[omen@zhengbinO1 ~] $ grep '^[wy]' txtfile.txt
wy is the short of my name.

omen@zhengbinO1 ~]$ ■
```