(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.

实验结果如下:

```
[duanhuijie@localhost ~]$ pwd
/home/duanhuijie
[duanhuijie@localhost ~]$ cd ~
[duanhuijie@localhost ~]$ mkdir B22040703
[duanhuijie@localhost ~]$ cd B22040703
[duanhuijie@localhost B22040703]$ mkdir 段慧洁
[duanhuijie@localhost B22040703]$ ls
段慧洁
[duanhuijie@localhost B22040703]$ rmdir 段慧洁
[duanhuijie@localhost B22040703]$ ls
[duanhuijie@localhost B22040703]$ ls
[duanhuijie@localhost B22040703]$ ls
```

(2) File operation

Enter the following commands in sequence:

```
$cd ~
$touch yourname.txt
$1s
$echo "hello world" > yourname.txt
$cat yourname.txt
$cp yourname.txt yourname2.txt
$mv yourname.txt yourstudentid.txt
$1s
```

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

实验结果如下:

```
[duanhuijie@localhost ~] $ cd ~
duanhuijie@localhost~j$ touch 段慧洁.txt
duanhuijie@localhost~|$ ls
          B22040703段慧洁
                                   screenshot 段慧洁.txt 图片 桌面
                         must
                                              公共
                                                         文档
above
          command
                          of
                                   the
                          results,
                                   with
                                              模板
                                                         下载
along
          corresponding
                                                         音乐
B22040703 have
                                              视频
                          Save
                                   vou
[duanhuijie®localhost~]$ echo "hello world" >段慧洁.txt
[duanhuijie@localhost ~]$ cat 段慧洁.txt
hello world
duanhuijie®localhost ~|$ cp 段慧洁.txt 段慧洁2.txt
duanhuijie@localhost ~1$ mv 段慧洁.txt B22040703.txt
duanhuijie@localhost ~|$ ls
                                                               音乐
          B22040703.txt
                                                          视频
                          have
                                   Save
a
                                              you
          B22040703段慧洁
                                              段慧洁2.txt
                                                          图片
                                                                桌面
above
                         must
                                   screenshot
                                              公共
                                                          文档
          command
                         of
along
                                   the
B22040703 corresponding
                          results, with
                                              模板
                                                          下载
[duanhuijie@localhost ~]$
```

(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.

实验结果如下:

```
[duanhuijie@localhost ~]$ whoami
duanhuijie
[duanhuijie@localhost ~]$ sudo su root
[sudo] duanhuijie 的密码:
[root@localhost duanhuijie]# groupadd student
[root@localhost duanhuijie]# whoami
root
[root@localhost duanhuijie]# adduser B22040703
[root@localhost duanhuijie]# usermod - g student B22040703
[root@localhost duanhuijie]# su B22040703
[B22040703@localhost duanhuijie]$ cd ~
[B22040703@localhost ~]$ touch B22040703.txt
[B22040703@localhost ~]$ ls - l
总用量 0
- rw- r-- r-- . 1 B22040703 student 0 10月 14 10:07 B22040703.txt
[B22040703@localhost ~]$ ■
```

(4) Permission management

Enter the following commands in sequence:

After entering each line, run Is -I demo to view the result.

实验结果如下:

```
[duanhuijie@localhost ~]$ touch demo
  duanhuijie@localhost ~| $ chmod 777 demo
 duanhuijie@localhost ~|$ chmod a-x demo
duanhuijie@localhost~|$ ls -l
-rw-rw-rw-. 1 duanhuijie duanhuijie 0 10月 14 10:16 demo
[duanhuijie@localhost~]$ chmod go-w demo
[duanhuijie@localhost ~]$ ls -l
-rw-r--r-. 1 duanhuijie duanhuijie 0 10月 14 10:16 demo
 duanhuijie@localhost ~]$ chmod g+w demo
duanhuijie®localhost ~]$ ls -l
|-rw-rw-r--. 1 duanhuijie duanhuijie 0 10月 14 10:16 demo
|duanhuijie@localhost ~|$ chmod a= demo
[duanhuijie@localhost ~]$ ls -l
|-----. 1 duanhuijie duanhuijie 0 10月 14 10:16 demo
duanhuijie@localhost ~]$ chmod +t demo
[duanhuijie@localhost ~]$ ls -l
|-----T. 1 duanhuijie duanhuijie 0 10月 14 10:16 demo
[duanhuijie@localhost ~] $ chmod u+s demo
| duanhuijie@localhost ~| $ ls -l
---S----T. 1 duanhuijie duanhuijie 0 10月 14 10:16 demo
[duanhuijie@localhost~]$ chmod u+rx demo
duanhuijie@localhost ~|$ ls -l
-r-s----T. 1 duanhuijie duanhuijie 0 10月 14 10:16 demo
 duanhuijie@localhost ~] $ chmod g+rws demo
duanhuijie@localhost ~]$ ls -l
-r-srwS--T. 1 duanhuijie duanhuijie 0 10月 14 10:16 demo
```

###(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
$ls -l
$tar -xzvf backup.tar.gz
$ls -l
```

Observe changes in the process.

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

drwxr-xr-x. 4 duanhuijie duanhuijie 24 10月 14 10:48 others

```
$ grep '^[wy]'textfile
实验结果如下:
[duanhuijie@localhost ~] $ tar -czvf backup.tar.gz others
others/
others/1
others/2
[duanhuijie@localhost ~]$ ls-l
bash: ls-l: 未找到命令...
[duanhuijie@localhost ~]$ ls -l
-rw-rw-r--. 1 duanhuijie duanhuijie 152 10月 14 10:49 backup.tar.gz
|drwxr-xr-x, 4 duanhuijie duanhuijie 24 10月 14 10:48 others
[duanhuijie@localhost~]$ tar -xzvf backup.tar.gz
others/
others/1
others/2
|-rw-rw-r--. 1 duanhuijie duanhuijie 152 10月 14 10:49 backup.tar.gz
```

```
[duanhuijie®localhost 文档]$ grep '^n' textfile
no, I study in njupt.
[duanhuijie®localhost 文档]$ grep '\.00$' textfile
this line ends with .00
He is 15. It is 16.00
[duanhuijie®localhost 文档]$ grep '5\..' textfile
He is 15. It is 16.00
[duanhuijie®localhost 文档]$ grep '^[wy]' textfile
wy is the short of my name.
[duanhuijie®localhost 文档]$ ■
```