## (1) Directory Operation

Enter the following commands in sequence:

\$pwd

\$cd ~

\$mkdir your\_studentID

\$cd your\_studentID

\$mkdir your\_name

\$ls

\$rmdir your\_name

\$ls

```
C@C-virtual-machine:-/文档/11$ pwd
/home/c/文档/11
C@C-virtual-machine:-/文档/11$ cd ~
C@C-virtual-machine:-$ nkdir B22040816
C@C-virtual-machine:-$ nkdir B22040816
C@C-virtual-machine:-/B22040816$ ls
陈浩然
C@C-virtual-machine:-/B22040816$ rmdir 陈浩然
C@C-virtual-machine:-/B22040816$ ls

C@C-virtual-machine:-/B22040816$ ls

C@C-virtual-machine:-/B22040816$
```

## (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

```
C@c-virtual-machine:-/文档/11$ cd ~

c@c-virtual-machine:-/文档/11$ cd ~

c@c-virtual-machine:-$ touch 陈浩然.txt

c@c-virtual-machine:-$ ls

陈浩然.txt 公共的 模板 视频 图片 文档 下载 音乐 桌面 822040816 snap

c@c-virtual-machine:-$ cat 陈浩然.txt

hello world

c@c-virtual-machine:-$ cp 陈浩然.txt 陈浩然2.txt

c@c-virtual-machine:-$ my 陈浩然.txt B22040816.txt

c@c-virtual-machine:-$ ls

陈浩然2.txt 模板 图片 下载 桌面 B22040816.txt

公共的 视频 文档 音乐 822040816 snap

c@c-virtual-machine:-$
```

## (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

\$ls -l

```
b22040816@c-virtual-machine: ~
 sudo] password for c:
  ot@c-virtual-machine:/home/c/桌面# groupadd student
 roupadd: group 'student' already exists
pot@c-virtual-machine:/home/c/桌面# whoami
 oot@c-virtual-machine:/home/c/桌面# adduser B22040816
adduser: Please enter a username matching the regular expression configured 
via the NAME_REGEX[_SYSTEM] configuration variable. Use the `--force-badnam
ption to relax this check or reconfigure NAME_REGEX.
oot@c-virtual-machine:/home/c/桌面# adduser b22040816
ddding user 'b22040816' ...
dding user 'b22040816' (1002) ...
dding new group 'b22040816' (1001) with group 'b22040816' ...
reating home directory '/home/b22040816' ...
 ew password:
 etype new password:
 orry, passwords do not match.
ew password:
 etype new password:
Assam. passawid upoated successitivity
Ahanging the user information for biz2040816
Inter the new value, or press ENTER for the default
Full Name []: b22040816
Room Number []: 1001
Work Phone []:
Hone Phone []:
 Other []:
s the information correct? [Y/n] y
oot@c-virtual-machine:/home/c/桌面# su B22040816
u: user B22040816 does not exist or the user entry does not contain all the required fields
  oot@c-virtual-machine:/home/c/桌面# su b22040816
 22040816@c-virtual-machine:-$ touch 陈浩然.txt
22040816@c-virtual-machine:-$ ls -1
 浩然.txt
   2040816@c-virtual-machine:~$
```

## (4) Permission management

Enter the following commands in sequence:

```
$ touch demo
 $ chmod 777 demo
 $ chmod a-x demo
$ chmod go-w demo
$ chmod g+w demo
$ chmod a=
              demo
$ chmod +t demo
$ chmod u+s demo
$ chmod u+rx demo
# result is rw-rw-rw-
# result is rw-r--r--
# result is rw-rw-r--
# result is -----
# result is -----T
# result is --S----T
# result is r-s----T
$ chmod g+rws demo
```

# result is r-srwS—T

```
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                           c@c-virtual-machine: ~/文档/11
                                                         Q = -
c@c-virtual-machine:~/文档/11$ touch demo
c@c-virtual-machine:~/文档/11$ chmod 777 demo
c@c-virtual-machine:~/文档/11$ chmod a-x demo
c@c-virtual-machine:~/文档/11$ chmod go-w demo
c@c-virtual-machine:~/文档/11$ chmod g+w demo
c@c-virtual-machine:~/文档/11$ chmod a= demo
c@c-virtual-machine:~/文档/11$ chmod +t demo
c@c-virtual-machine:~/文档/11$ chmod +t demo
c@c-virtual-machine:~/文档/11$ chmod u+s demo
c@c-virtual-machine:~/文档/11$ chmod u+rx demo
c@c-virtual-machine:~/文档/11$ chmod g+rws demo
c@c-virtual-machine:~/文档/11$ ls -l demo
-r-srwS--T 1 c c 0 10月 14 10:39 <mark>demo</mark>
c@c-virtual-machine:~/文档/11$
```