## (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

```
ang@wang-virtual-machine:~/linux$ pwd
/home/wang/linux
找不到命令"cd~",您的意思是:
 "cdb"命令来自 Debian 软件包 tinycdb (0.78build3)
 "cdo" 命令来自 Debian 软件包 cdo (2.0.4-1)
 "cdp" 命令来自 Debian 软件包 irpas (0.10-9)
"cdw" 命令来自 Debian 软件包 cdw (0.8.1-2)
 "cdi"命令来自 Debian 软件包 cdo (2.0.4-1)
 "cde" 命令来自 Debian 软件包 cde (0.1+git9-g551e54d-1.2)
"cds" 命令来自 Debian 软件包 cds (0.1-4)
尝试 sudo apt install <deb name>
ang@wang-virtual-machine:~/linux$ cd -
ang@wang-virtual-machine:~$ mkdir B22040706~
ang@wang-virtual-machine:~$ mkdir B22040706
ang@wang-virtual-machine:~$ cd B22040706
vang@wang-virtual-machine:~/822040706$ mkdir 王鼎昌
vang@wang-virtual-machine:~/B22040706$ rmdir 王鼎昌
ang@wang-virtual-machine:~/B22040706$ ls
wang@wang-virtual-machine:~/B22040706$
```

## (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
```

```
wang@wang-virtual-machine:-/linux$ cd ~
wang@wang-virtual-machine:-$ touch 王鼎昌.txt
wang@wang-virtual-machine:-$ ls
公共的 模板 图片 文档 音乐 B22040706 linux
函数调用路径 视频 王鼎昌.txt 下载 桌面 caozuoxitong snap
wang@wang-virtual-machine:-$ echo "hello world" > 王鼎昌.txt
wang@wang-virtual-machine:-$ cat 王鼎昌.txt
hello world
wang@wang-virtual-machine:-$ cp yourname.txt 王鼎昌2.txt
cp: 对 'yourname.txt' 调用 stat 失败: 没有那个文件或目录
wang@wang-virtual-machine:-$ cp 王鼎昌.txt 王鼎昌2.txt
wang@wang-virtual-machine:-$ cp 王鼎昌.txt 王鼎昌2.txt
wang@wang-virtual-machine:-$ ls
公共的 模板 图片 文档 音乐 B22040706 caozuoxitong snap
函数调用路径 视频 王鼎昌2.txt 下载 桌面 B22040706.txt linux
wang@wang-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 vourstudentID
#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
$1s -1
wang@wang-virtual-machine:~/linux$ whoami
wang
wang@wang-virtual-machine:~/linux$ sudo su root
[sudo] wang 的密码:
root@wang-virtual-machine:/home/wang/linux# groupadd student
groupadd: "student"组已存在
root@wang-virtual-machine:/home/wang/linux# whoami
root@wang-virtual-machine:/home/wang/linux# adduser b22040706
正在添加用户"b22040706"...
正在添加新组"b22040706" (1002)...
正在添加新用户"b22040706" (1001) 到组"b22040706"...
创建主目录"/home/b22040706"...
```

```
请输入新值,或直接敲回车键以使用默认值
正在添加用户"b22040706"
正在添加新组"b22040706" (1002)...
正在添加新用户"b22040706" (1001) 到组"b22040706"...
创建主目录"/home/b22040706"...
正在从"/etc/skel"复制文件...
新的密码:
重新输入新的密码:
passwd: 已成功更新密码
正在改变 b22040706 的用户信息
请输入新值,或直接敲回车键以使用默认值
      全名 []:
      房间号码 []:
      工作电话 []:
      家庭电话 []:
      其它 []:
这些信息是否正确? [Y/n] y
root@wang-virtual-machine:/home/wang/linux# usermod -g student b220407
root@wang-virtual-machine:/home/wang/linux# su b22040706
222040706@wang-virtual-machine:/home/wang/linux$ cd
b22040706@wang-virtual-machine:~$ touch 王鼎昌.txt
b22040706@wang-virtual-machine:~$ ls -l
总计 o
-rw-r--r-- 1 b22040706 student 0 1<u>2</u>月 8 19:31 王鼎昌.txt
022040706@wang-virtual-machine:~$
```

正在从"/etc/skel"复制文件...

新的密码:

重新输入新的密码: passwd: 已成功更新密码 正在改变 b22040706 的用户信息

## (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
```

```
ual-machine:~$ tar -czvf backup.tar.gz others
others/1/
 ang@wang-virtual-machine:~$ ls -l
drwxr-xr-x 2 wang wang 4096
                                      4月 5 2024 公共的
drwxr-xr-x 2 wang wang 4096 4月 3 26:51 函数调用路径
drwxr-xr-x 2 wang wang 4096 4月 5 2024 模板
drwxr-xr-x 2 wang wang 4096 4月 5 2024 模板
drwxr-xr-x 2 wang wang 4096 4月 5 2024 视频
drwxr-xr-x 3 wang wang 4096 5月 18 2024 圆片
-rw-rw-r-- 1 wang wang 12 12月 8 19:22 王鼎昌2.txt
                                      6月 21 01:44
                 wang wang 4096
drwxr-xr-x 5
                wang wang 4096 10月 30 20:38
drwxr-xr-x 2
                wang wang 4096
                                                 2024
         --- 4 wang wang 4096 12月
drwxrwxr-x 2
                 wang wang 4096 12月
                                             8 19:14
                                      12月
                                             8 19:20 B22040706.txt
                wang wang
                                      12月
                 wang wang
                                             8 19:48
drwxrwxr-x 4 wang wang 4096 11月 23 16:01
lrwxrwxr-x 2 wang wang 4096 12月
 rwxrwxr-x 4 wang wang 4096
             5 wang wang 4096
                                       5月 14
                                                 2024
```

```
wang@wang-virtual-machine:~$ tar -xzvf backup.tar.gz
others/
others/2/
others/1/
wang@wang-virtual-machine:~$ ls -l
总计 68
drwxr-xr-x 2 wang wang 4096 4月 5 2024 公共的
drwxrwxr-x 2 wang wang 4096 11月 3 16:51 函数调用路径
drwxr-xr-x 2 wang wang 4096 4月 5 2024 模板
drwxr-xr-x 2 wang wang 4096 4月 5 2024 视频
drwxr-xr-x 3 wang wang 4096 5月 18 2024 🖫片
-rw-rw-r-- 1 wang wang 12 12月 8 19:22 王鼎昌2.txt
drwxr-xr-x 2 wang wang 4096 6月 21 01:44 文档
drwxr-xr-x 5 wang wang 4096 10月 30 20:38 下载
drwxr-xr-x 2 wang wang 4096 4月 5 2024 音乐
drwx----- 4 wang wang 4096 12月 2 10:35 桌面
drwxrwxr-x 2 wang wang 4096 12月 8 19:14 <u>B22040706</u>
                     12 12月 8 19:20 B22040706.txt
-rw-rw-r-- 1 wang wang
-rw-rw-r-- 1 wang wang 145 12月 8 19:48 <mark>backup</mark>
drwxrwxr-x 4 wang wang 4096 11月 23 16:01 caozuoxitong
drwxrwxr-x 2 wang wang 4096 12月 8 19:41 <mark>li</mark>nux
drwxrwxr-x 4 wang wang 4096 12月 8 19:48 others
drwx----- 5 wang wang 4096 5月 14 2024 snap
wang@wang-virtual-machine:~$
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
```

\$ grep '^[wy]'textfile

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