

(1) Directory Operation

Enter the following commands in sequence:

```
$pwd
```

```
$cd ~
```

```
$mkdir your_studentID
```

```
$cd your_studentID
```

```
$mkdir your_name
```

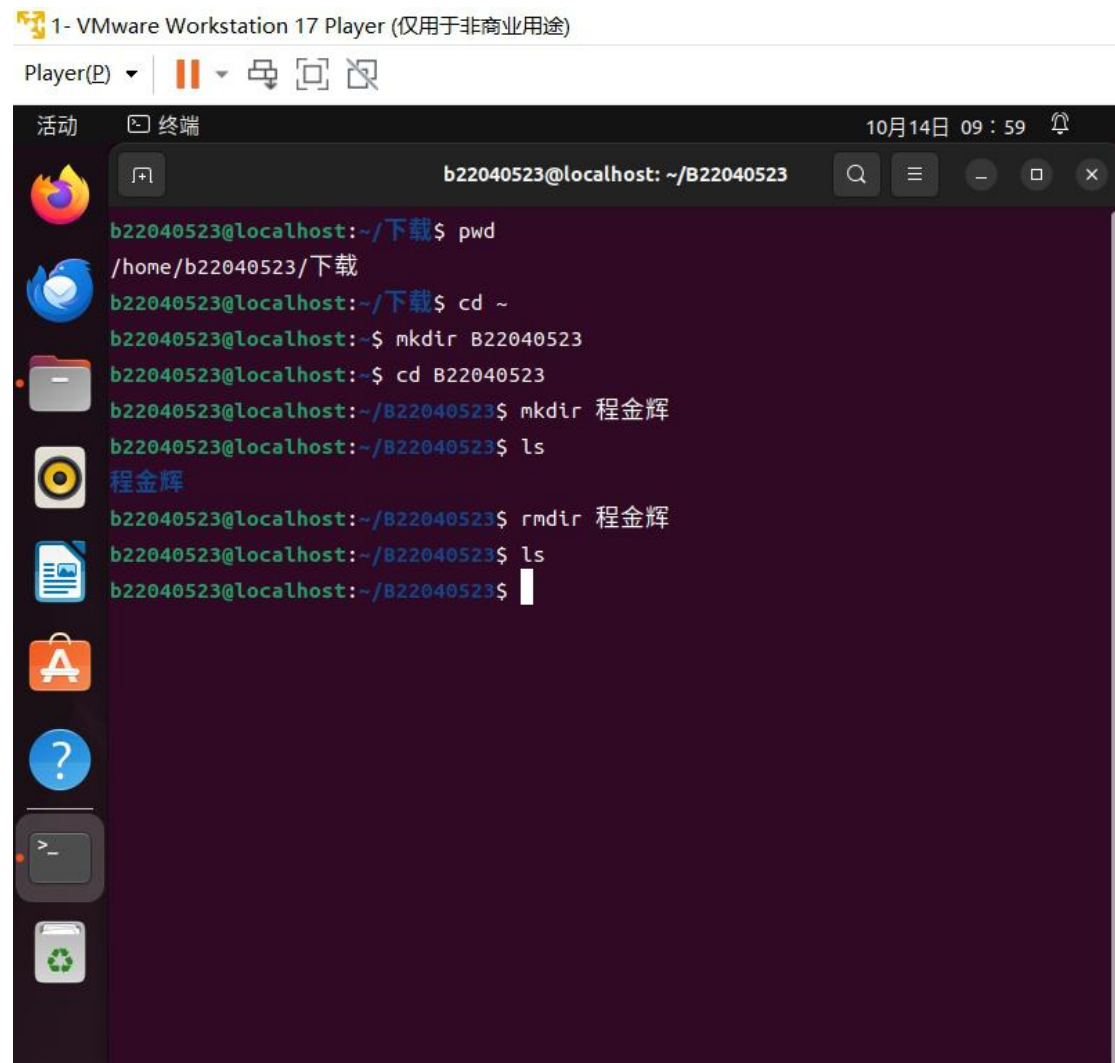
```
$ls
```

```
$rmdir your_name
```

```
$ls
```

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

结果:



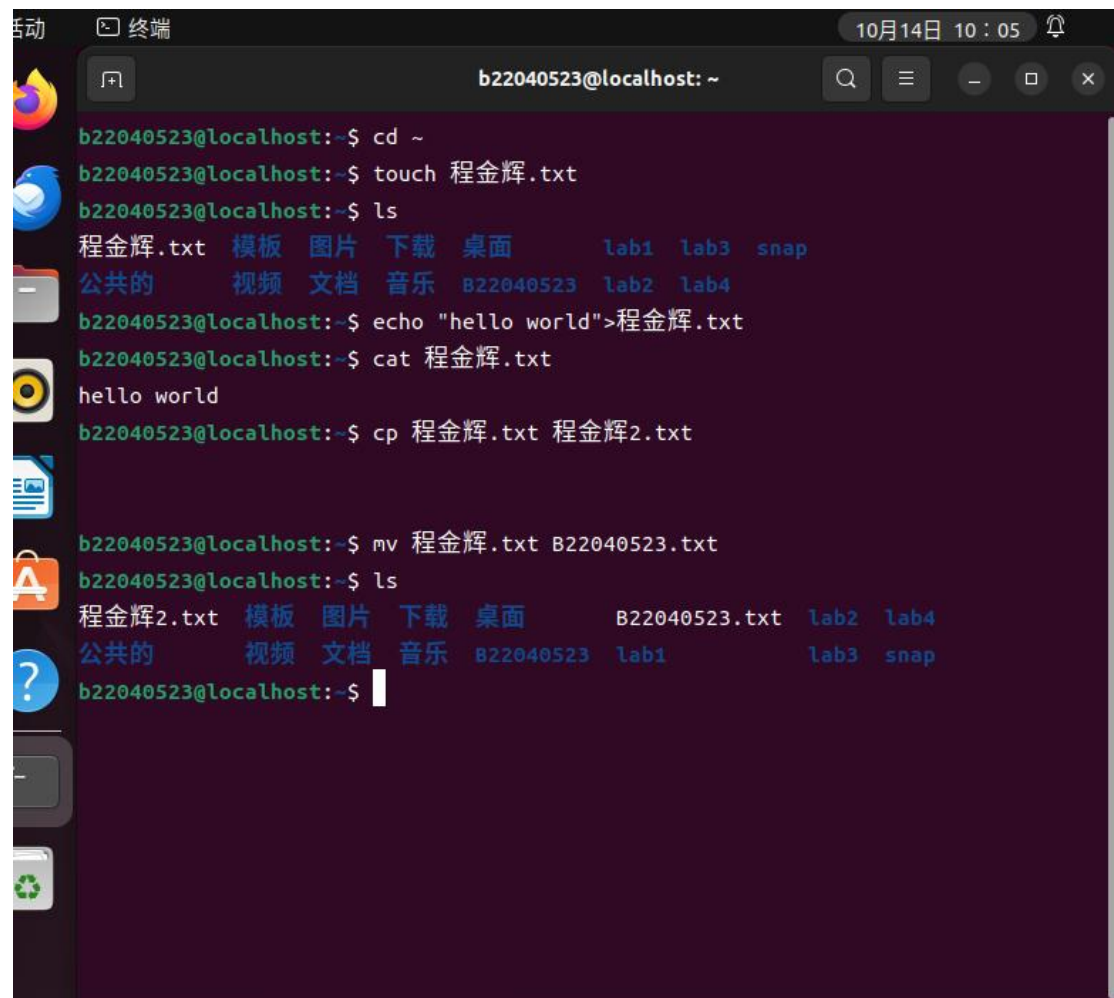
(2) File operation

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.

结果:



The screenshot shows a terminal window titled "b22040523@localhost: ~" with a dark background. The user has executed the following commands and received the following output:

```
b22040523@localhost:~$ cd ~  
b22040523@localhost:~$ touch 程金辉.txt  
b22040523@localhost:~$ ls  
程金辉.txt  模板  图片  下载  桌面      lab1  lab3  snap  
公共的      视频  文档  音乐  B22040523 lab2  lab4  
b22040523@localhost:~$ echo "hello world">程金辉.txt  
b22040523@localhost:~$ cat 程金辉.txt  
hello world  
b22040523@localhost:~$ cp 程金辉.txt 程金辉2.txt  
  
b22040523@localhost:~$ mv 程金辉.txt B22040523.txt  
b22040523@localhost:~$ ls  
程金辉2.txt 模板 图片 下载 桌面      B22040523.txt lab2 lab4  
公共的      视频 文档 音乐  B22040523 lab1      lab3 snap  
b22040523@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
```

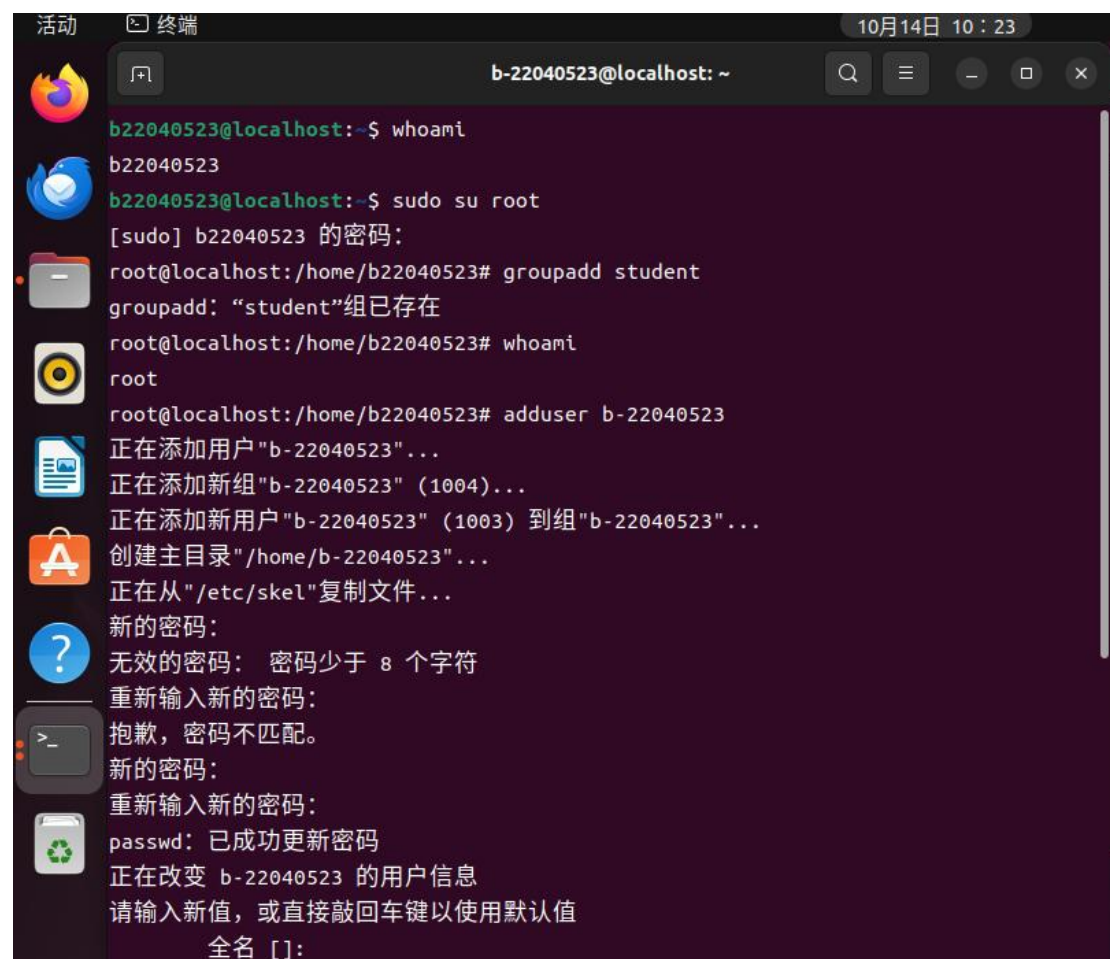
```
$cd ~
```

```
$touch yourname.txt
```

```
$ls -l
```

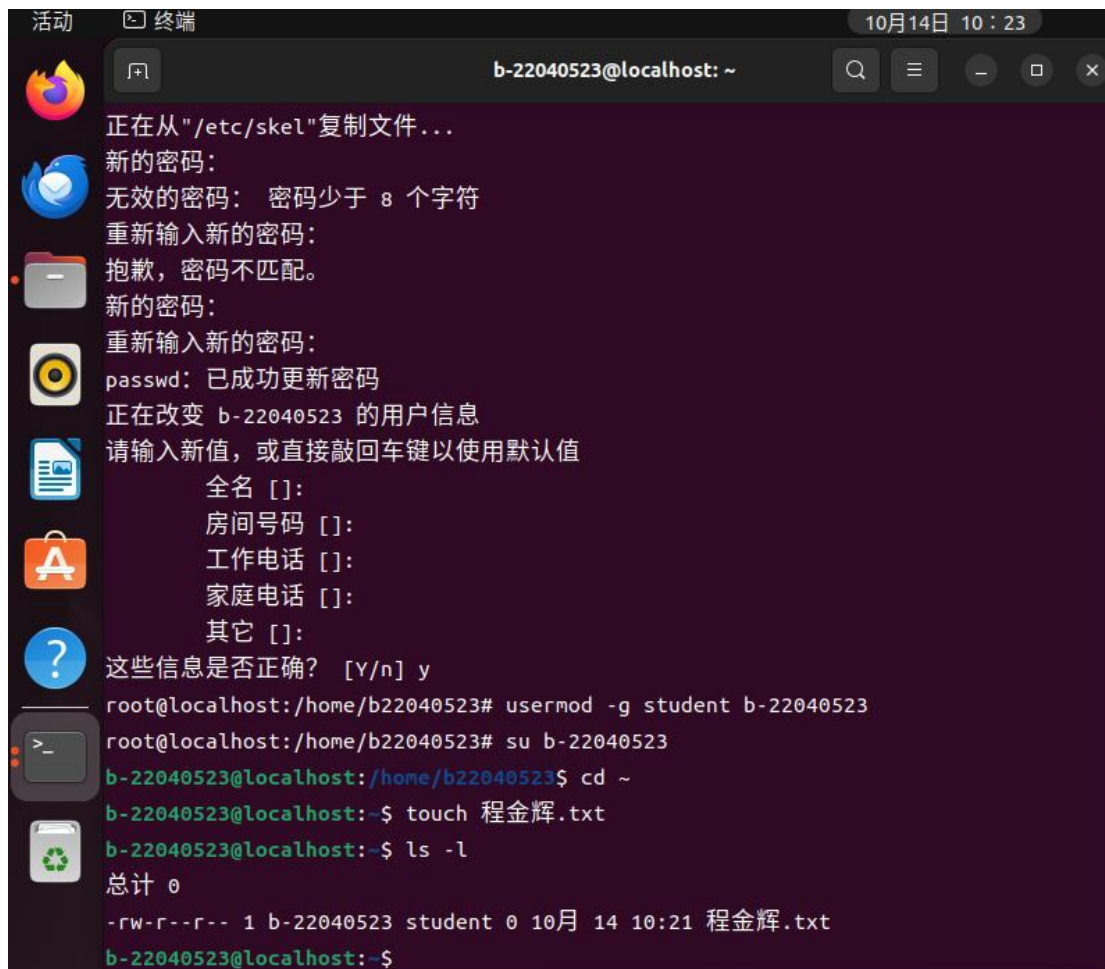
View the properties of the file, including the owner user and the group to which the owner user belongs.

结果:



The image shows a terminal window titled "b-22040523@localhost: ~" with a dark background. The terminal output is as follows:

```
b22040523@localhost:~$ whoami
b22040523
b22040523@localhost:~$ sudo su root
[sudo] b22040523 的密码:
root@localhost:/home/b22040523# groupadd student
groupadd: "student"组已存在
root@localhost:/home/b22040523# whoami
root
root@localhost:/home/b22040523# adduser b-22040523
正在添加用户"b-22040523"...
正在添加新组"b-22040523" (1004)...
正在添加新用户"b-22040523" (1003) 到组"b-22040523"...
创建主目录"/home/b-22040523"...
正在从"/etc/skel"复制文件...
新的密码:
无效的密码: 密码少于 8 个字符
重新输入新的密码:
抱歉, 密码不匹配。
新的密码:
重新输入新的密码:
passwd: 已成功更新密码
正在改变 b-22040523 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 []:
```



The screenshot shows a terminal window titled "终端" (Terminal) with the user "b-22040523@localhost: ~". The terminal output is as follows:

```
正在从"/etc/skel"复制文件...
新的密码:
无效的密码: 密码少于 8 个字符
重新输入新的密码:
抱歉, 密码不匹配。
新的密码:
重新输入新的密码:
passwd: 已成功更新密码
正在改变 b-22040523 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@localhost:/home/b22040523# usermod -g student b-22040523
root@localhost:/home/b22040523# su b-22040523
b-22040523@localhost:/home/b22040523$ cd ~
b-22040523@localhost:~$ touch 程金辉.txt
b-22040523@localhost:~$ ls -l
总计 0
-rw-r--r-- 1 b-22040523 student 0 10月 14 10:21 程金辉.txt
b-22040523@localhost:~$
```

(4) Permission management

Enter the following commands in sequence:

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

###(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.

```
$whoami
$sudo su root
#groupadd student
#whoami
#adduser yourstudentID
#usermod -g student yourstudentID
#su yourstudentID
$cd ~
$touch yourname.txt
$ls -l
$ touch demo
$ chmod 777 demo
$ chmod a-x demo # result is rw-rw-rw-
```

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

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

结果:

活动 终端 10月14日 10:35

b22040523@localhost: ~

```
b22040523@localhost:~$ touch demo
b22040523@localhost:~$ ls -l demo
-rw-rw-r-- 1 b22040523 b22040523 0 10月 14 10:29 demo
b22040523@localhost:~$ chmod 777 demo
b22040523@localhost:~$ ls-l demo
ls-l: 未找到命令
b22040523@localhost:~$ ls -l demo
-rwxrwxrwx 1 b22040523 b22040523 0 10月 14 10:29 demo
b22040523@localhost:~$ chmod a-x demo
b22040523@localhost:~$ ls -l demo
-rw-rw-rw- 1 b22040523 b22040523 0 10月 14 10:29 demo
b22040523@localhost:~$ chmod go-w demo
b22040523@localhost:~$ ls -l demo
-rw-r--r-- 1 b22040523 b22040523 0 10月 14 10:29 demo
b22040523@localhost:~$ chmod g+w demo
b22040523@localhost:~$ ls -l demo
-rw-rw-r-- 1 b22040523 b22040523 0 10月 14 10:29 demo
b22040523@localhost:~$ chmod a= demo
b22040523@localhost:~$ ls -l demo
----- 1 b22040523 b22040523 0 10月 14 10:29 demo
b22040523@localhost:~$ chmod +t demo
b22040523@localhost:~$ ls -l demo
-----T 1 b22040523 b22040523 0 10月 14 10:29 demo
b22040523@localhost:~$ chmod u+s demo
```


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b22040523@localhost: ~

```
b22040523@localhost:~$ ls -l demo
-rw-rw-rw- 1 b22040523 b22040523 0 10月 14 10:29 demo
b22040523@localhost:~$ chmod go-w demo
b22040523@localhost:~$ ls -l demo
-rw-r--r-- 1 b22040523 b22040523 0 10月 14 10:29 demo
b22040523@localhost:~$ chmod g+w demo
b22040523@localhost:~$ ls -l demo
-rw-rw-r-- 1 b22040523 b22040523 0 10月 14 10:29 demo
b22040523@localhost:~$ chmod a= demo
b22040523@localhost:~$ ls -l demo
----- 1 b22040523 b22040523 0 10月 14 10:29 demo
b22040523@localhost:~$ chmod +t demo
b22040523@localhost:~$ ls -l demo
-----T 1 b22040523 b22040523 0 10月 14 10:29 demo
b22040523@localhost:~$ chmod u+s demo
b22040523@localhost:~$ ls -l demo
---S-----T 1 b22040523 b22040523 0 10月 14 10:29 demo
b22040523@localhost:~$ chmod u+rx demo
b22040523@localhost:~$ ls -l demo
-r-s-----T 1 b22040523 b22040523 0 10月 14 10:29 demo
b22040523@localhost:~$ chmod g+rws demo
b22040523@localhost:~$ ls -l demo
-r-srws--T 1 b22040523 b22040523 0 10月 14 10:29 demo
b22040523@localhost:~$
```

```
b22040523@localhost: ~  
b22040523@localhost:~$ tar -czvf backup.tar.gz others  
others/  
others/1/  
others/2/  
b22040523@localhost:~$ ls -l  
总计 72  
-rw-rw-r-- 1 b22040523 b22040523 12 10月 14 10:04 程金辉2.txt  
drwxr-xr-x 3 b22040523 b22040523 4096 4月 6 2024 公共的  
drwxr-xr-x 2 b22040523 b22040523 4096 4月 6 2024 模板  
drwxr-xr-x 2 b22040523 b22040523 4096 4月 6 2024 视频  
drwxr-xr-x 2 b22040523 b22040523 4096 4月 6 2024 图片  
drwxr-xr-x 2 b22040523 b22040523 4096 4月 6 2024 文档  
drwxr-xr-x 5 b22040523 b22040523 4096 10月 12 11:18 下载  
drwxr-xr-x 2 b22040523 b22040523 4096 4月 6 2024 音乐  
drwxr-xr-x 2 b22040523 b22040523 4096 4月 6 2024 桌面  
drwxrwxr-x 2 b22040523 b22040523 4096 10月 14 09:56 B22040523  
-rw-rw-r-- 1 b22040523 b22040523 12 10月 14 10:03 B22040523.txt  
-rw-rw-r-- 1 b22040523 b22040523 148 10月 14 10:38 backup.tar.gz  
-r-srws--T 1 b22040523 b22040523 0 10月 14 10:29 demo  
drwxrwxr-x 2 b22040523 b22040523 4096 4月 7 2024 lab1  
drwxrwxr-x 2 b22040523 b22040523 4096 6月 18 10:48 lab2  
drwxrwxr-x 2 b22040523 b22040523 4096 6月 18 10:56 lab3  
drwxrwxr-x 2 b22040523 b22040523 4096 6月 18 11:01 lab4  
drwxrwxr-x 4 b22040523 b22040523 4096 10月 14 10:36 others
```



```
b22040523@localhost: ~  
others/1/  
others/2/  
b22040523@localhost:~$ ls -l  
总计 72  
-rw-rw-r-- 1 b22040523 b22040523 12 10月 14 10:04 程金辉2.txt  
drwxr-xr-x 3 b22040523 b22040523 4096 4月 6 2024 公共的  
drwxr-xr-x 2 b22040523 b22040523 4096 4月 6 2024 模板  
drwxr-xr-x 2 b22040523 b22040523 4096 4月 6 2024 视频  
drwxr-xr-x 2 b22040523 b22040523 4096 4月 6 2024 图片  
drwxr-xr-x 2 b22040523 b22040523 4096 4月 6 2024 文档  
drwxr-xr-x 5 b22040523 b22040523 4096 10月 12 11:18 下载  
drwxr-xr-x 2 b22040523 b22040523 4096 4月 6 2024 音乐  
drwxr-xr-x 2 b22040523 b22040523 4096 4月 6 2024 桌面  
drwxrwxr-x 2 b22040523 b22040523 4096 10月 14 09:56 b22040523  
-rw-rw-r-- 1 b22040523 b22040523 12 10月 14 10:03 B22040523.txt  
-rw-rw-r-- 1 b22040523 b22040523 148 10月 14 10:38 backup.tar.gz  
-r-srws--T 1 b22040523 b22040523 0 10月 14 10:29 demo  
drwxrwxr-x 2 b22040523 b22040523 4096 4月 7 2024 lab1  
drwxrwxr-x 2 b22040523 b22040523 4096 6月 18 10:48 lab2  
drwxrwxr-x 2 b22040523 b22040523 4096 6月 18 10:56 lab3  
drwxrwxr-x 2 b22040523 b22040523 4096 6月 18 11:01 lab4  
drwxrwxr-x 4 b22040523 b22040523 4096 10月 14 10:36 others  
drwx----- 4 b22040523 b22040523 4096 4月 6 2024 snap  
b22040523@localhost:~$ touch textfile
```

```
b22040523@localhost: ~  
b22040523@localhost:~$ grep '^n' textfile  
no, I study in njupt.  
b22040523@localhost:~$ grep '\.00$' textfile  
this line ends with .00  
b22040523@localhost:~$ grep '5\.. ' textfile  
He is 15. It is 16.00  
b22040523@localhost:~$ grep '^[wy]' textfile  
wy is the short of my name.  
b22040523@localhost:~$
```

```
b22040523@localhost: ~  
drwx----- 4 b22040523 b22040523 4096 4月 6 2024 snap  
b22040523@localhost:~$ tar -xzvf backup.tar.gz  
others/  
others/1/  
others/2/  
b22040523@localhost:~$ ls -l  
总计 72  
-rw-rw-r-- 1 b22040523 b22040523 12 10月 14 10:04 程金辉2.txt  
drwxr-xr-x 3 b22040523 b22040523 4096 4月 6 2024 公共的  
drwxr-xr-x 2 b22040523 b22040523 4096 4月 6 2024 模板  
drwxr-xr-x 2 b22040523 b22040523 4096 4月 6 2024 视频  
drwxr-xr-x 2 b22040523 b22040523 4096 4月 6 2024 图片  
drwxr-xr-x 2 b22040523 b22040523 4096 4月 6 2024 文档  
drwxr-xr-x 5 b22040523 b22040523 4096 10月 12 11:18 下载  
drwxr-xr-x 2 b22040523 b22040523 4096 4月 6 2024 音乐  
drwxr-xr-x 2 b22040523 b22040523 4096 4月 6 2024 桌面  
drwxrwxr-x 2 b22040523 b22040523 4096 10月 14 09:56 B22040523  
-rw-rw-r-- 1 b22040523 b22040523 12 10月 14 10:03 B22040523.txt  
-rw-rw-r-- 1 b22040523 b22040523 148 10月 14 10:38 backup.tar.gz  
-r-srwS--T 1 b22040523 b22040523 0 10月 14 10:29 demo  
drwxrwxr-x 2 b22040523 b22040523 4096 4月 7 2024 lab1  
drwxrwxr-x 2 b22040523 b22040523 4096 6月 18 10:48 lab2  
drwxrwxr-x 2 b22040523 b22040523 4096 6月 18 10:56 lab3  
drwxrwxr-x 2 b22040523 b22040523 4096 6月 18 11:01 lab4
```