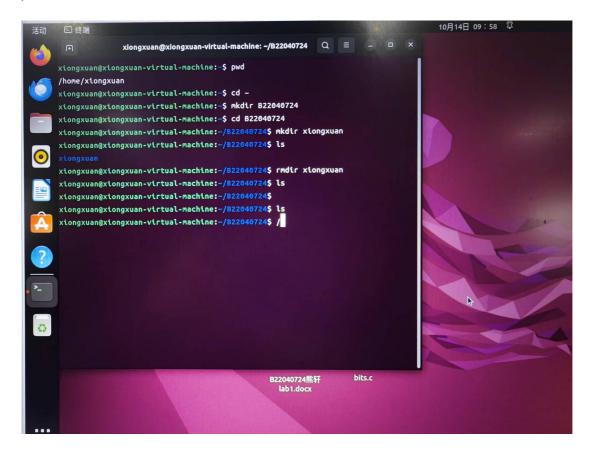
## (1) Directory Operation

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.



## (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.

## (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:

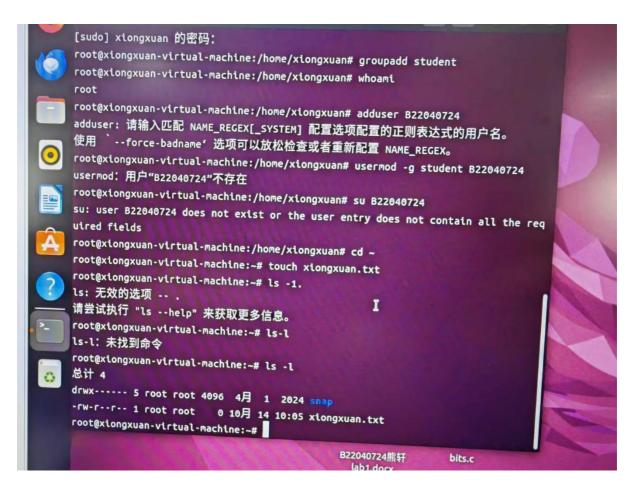
```
#groupadd student
#whoami
#adduser yourstudentID
#usermod -g student yourstudentID
```

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.

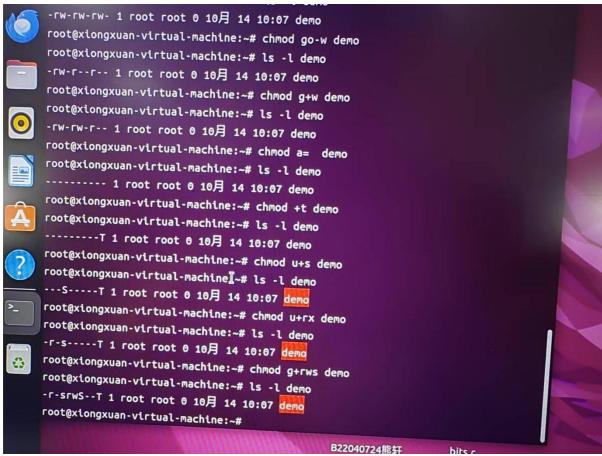


## (4) Permission management

Enter the following commands in sequence:

```
$ touch demo
$ chmod 777 demo
                     # result is rw-rw-rw-
$ chmod a-x demo
$ chmod go-w demo
                    # result is rw-r--r--
                    # result is rw-rw-r--
$ chmod g+w demo
                     # result is -----
$ chmod a=
           demo
$ 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
```

After entering each line, run Is -I 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.

```
$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 linesending 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
                     xiongxuan@xiongxuan-virtual-machine: ~/others
    F
                                                                Q
                                                                                 xiongxuan@xiongxuan-virtual-machine:~/others$ grep '^n' q.txt
   no, I study in njupt.
   xiongxuan@xiongxuan-virtual-machine:~/others$ grep '\.00$' q.txt
   this line ends with .00
   He is 15. It is 16.00
   xiongxuan@xiongxuan-virtual-machine:~/others$ grep '5\..' q.txt
   He is 15. It is 16.00
   xiongxuan@xiongxuan-virtual-machine:~/others$ grep '^[wy]' q.txt
   wy is the short of my name.
    xiongxuan@xiongxuan-virtual-machine:~/others$
他位置
```