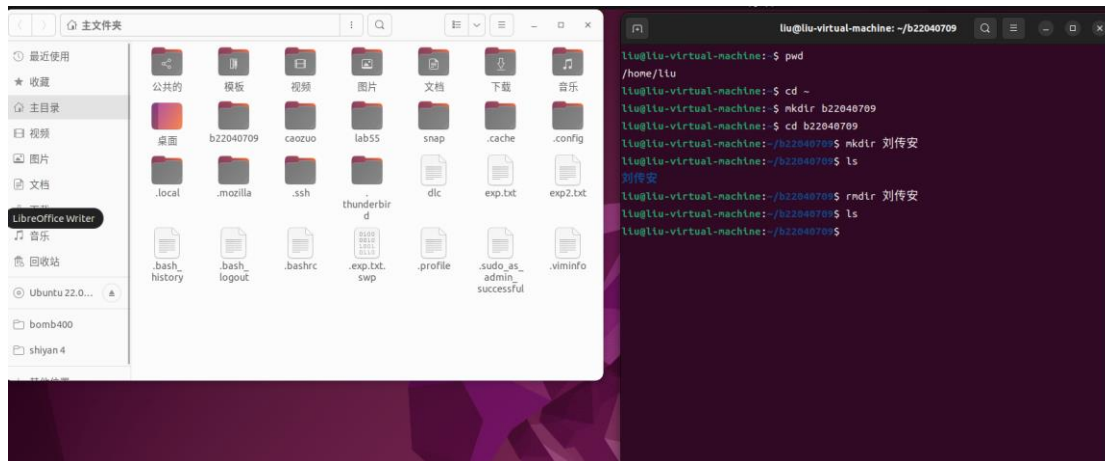(1)
$pwd
$cd ~
$mkdir your_studentID
$cd your_studentID
$mkdir your_name
$ls
$rmdir your_name
$ls

(2)
$cd ~
$touch yourname.txt
$ls
$echo "hello world" > yourname.txt
$cat yourname.txt
$cp yourname.txt yourname2.txt
$mv yourname.txt yourstudentid.txt
$ls

```
liu@liu-virtual-machine:~$ cd ~
liu@liu-virtual-machine:~$ touch 刘传安.txt
liu@liu-virtual-machine:~$ ls
公共的         模板   图片   下载   桌面      caozuo   exp2.txt  lab55
刘传安.txt   视频   文档   音乐   b22040709  dlc      exp.txt   snap
liu@liu-virtual-machine:~$ echo "hello world">刘传安.txt
liu@liu-virtual-machine:~$ cat 刘传安.txt
hello world
liu@liu-virtual-machine:~$ cp 刘传安.txt 刘传安2.txt
liu@liu-virtual-machine:~$ mv 刘传安.txt b22040709.txt
liu@liu-virtual-machine:~$ ls
公共的         视频   下载   b22040709      dlc       lab55
刘传安2.txt  图片   音乐   b22040709.txt  exp2.txt  snap
模板          文档   桌面   caozuo         exp.txt
liu@liu-virtual-machine:~$
```

(3)
$whoami
$sudo su root

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

#su yourstudentID
$cd ~
$touch yourname.txt
$ls -l

```
liu@liu-virtual-machine:~$ whoami
liu
liu@liu-virtual-machine:~$ sudo su root
[sudo] liu 的密码：
root@liu-virtual-machine:/home/liu# groupadd student
root@liu-virtual-machine:/home/liu# whoami
root
root@liu-virtual-machine:/home/liu# adduser b22040709
正在添加用户"b22040709"...
正在添加新组"b22040709" (1002)...
正在添加新用户"b22040709" (1001) 到组"b22040709"...
创建主目录"/home/b22040709"...
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 b22040709 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 []: usermod -g student b22040709
        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@liu-virtual-machine:/home/liu# usermod -g student b22040709
root@liu-virtual-machine:/home/liu#
```

```
liu@liu-virtual-machine:~$ su b22040709
密码：
b22040709@liu-virtual-machine:/home/liu$ cd ~
b22040709@liu-virtual-machine:~$ touch 刘传安.txt
b22040709@liu-virtual-machine:~$ ls _l
ls: 无法访问 '_l': 没有那个文件或目录
b22040709@liu-virtual-machine:~$ ls -l
总计 0
            1 b22040709 student 0 12月  7 15:25 刘传安.txt
b22040709@liu-virtual-machine:~$
```

(4)
```
 $ 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
```

```
liu@liu-virtual-machine:~$ touch demo
liu@liu-virtual-machine:~$ chmod 777 demo
liu@liu-virtual-machine:~$ ls -l demo
-rwxrwxrwx 1 liu liu 0 12月  7 15:27 demo
liu@liu-virtual-machine:~$ chmod a-x demo
liu@liu-virtual-machine:~$ ls -l demo
-rw-rw-rw- 1 liu liu 0 12月  7 15:27 demo
liu@liu-virtual-machine:~$ chmod go-w demo
liu@liu-virtual-machine:~$ ls -l demo
-rw-r--r-- 1 liu liu 0 12月  7 15:27 demo
liu@liu-virtual-machine:~$ chmod g+w demo
liu@liu-virtual-machine:~$ ls -l demo
-rw-rw-r-- 1 liu liu 0 12月  7 15:27 demo
liu@liu-virtual-machine:~$ chmod a= demo
liu@liu-virtual-machine:~$ ls -l demo
---------- 1 liu liu 0 12月  7 15:27 demo
liu@liu-virtual-machine:~$ chmod +t demo
liu@liu-virtual-machine:~$ ls -l demo
---------T 1 liu liu 0 12月  7 15:27 demo
liu@liu-virtual-machine:~$ chmod u+s demo
Ubuntu 22.04.4 LTS amd64 e:~$ ls -l demo
---S-----T 1 liu liu 0 12月  7 15:27 demo
liu@liu-virtual-machine:~$ chmod u+rx demo
liu@liu-virtual-machine:~$ ls -l demo
-r-s-----T 1 liu liu 0 12月  7 15:27 demo
liu@liu-virtual-machine:~$ chmod g+rws demo
liu@liu-virtual-machine:~$ ls -l demo
-r-srwS--T 1 liu liu 0 12月  7 15:27 demo
liu@liu-virtual-machine:~$
```

(5)
$tar -czvf backup.tar.gz others
$ls -l
$tar -xzvf backup.tar.gz
$ls -lObserve changes in the process.
Create a textfile file and make it as follows:
Search for all lines beginning with the character "n" in the file textfile
Search the textfile for all lines ending in ".00"

Search for all lines in the textfile that contain the number 5, followed by the character ".", followed
by any character
Search for all lines starting with the characters "w" and "y" in the file textfile

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.

$ grep '^n' textfile
$ grep '\.00$' textfile
$ grep '5\..' textfile
$ grep '^[wy]'textfile