```
b22100418@b22100418-virtual-machine:~/桌面$ pwd
/home/b22100418/桌面
b22100418@b22100418-virtual-machine:~/桌面$ cd ~
b22100418@b22100418-virtual-machine:~$ mkdir b22100418
b22100418@b22100418-virtual-machine:~$ cd b22100418
b22100418@b22100418-virtual-machine:~/b22100418$ mkdir zhangcan
b22100418@b22100418-virtual-machine:~/b22100418$ ls
zhangcan
b22100418@b22100418-virtual-machine:~/b22100418$ rmdir zhangcan
b22100418@b22100418-virtual-machine:~/b22100418$ ls
b22100418@b22100418-virtual-machine:~/b22100418$
```

图 1 第一题-1

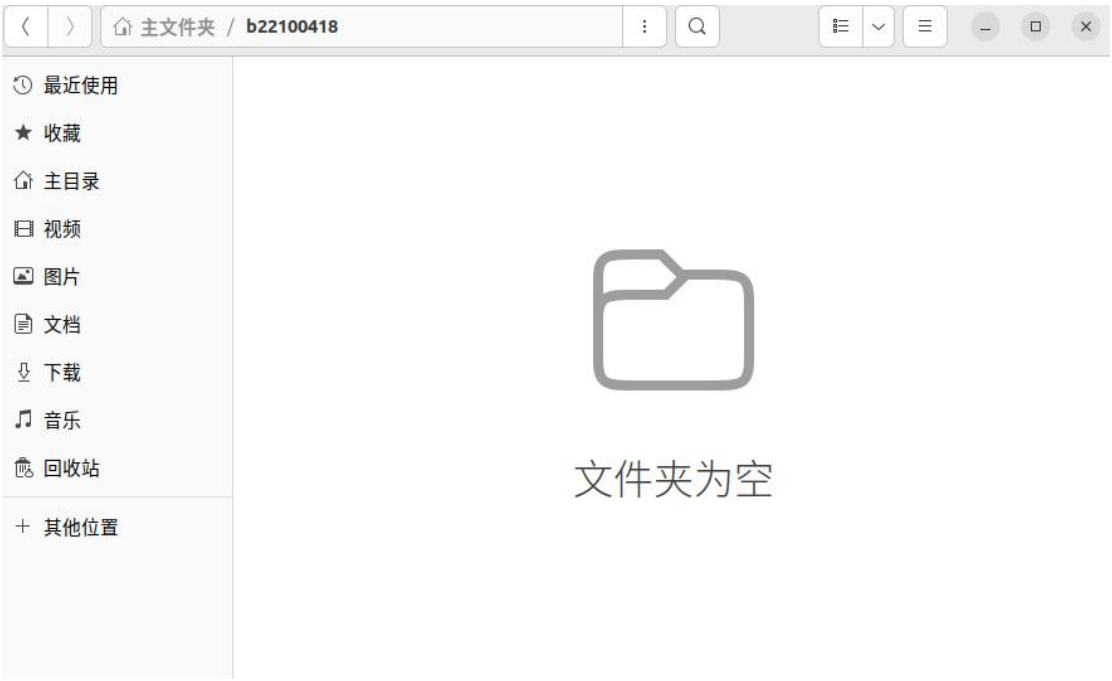

图 2 第一题-2

```
b22100418@b22100418-virtual-machine:~/桌面$ cd ~
b22100418@b22100418-virtual-machine:~$ touch zhangcan.txt
b22100418@b22100418-virtual-machine:~$ ls
公共的  模板  视频  图片  文档  下载  音乐  桌面  b22100418  datalab-handout  snap  zhangcan.txt
b22100418@b22100418-virtual-machine:~$ echo "hello world">zhangcan.txt
b22100418@b22100418-virtual-machine:~$ cat zhangcan.txt
hello world
b22100418@b22100418-virtual-machine:~$ cp zhangcan.txt zhangcan2,txt
b22100418@b22100418-virtual-machine:~$ mv zhangcan.txt b22100418.txt
b22100418@b22100418-virtual-machine:~$ ls
公共的  模板  视频  图片  文档  下载  音乐  桌面  b22100418  b22100418.txt  datalab-handout  snap  zhangcan2,txt
b22100418@b22100418-virtual-machine:~$
```

图 3 第二题-1

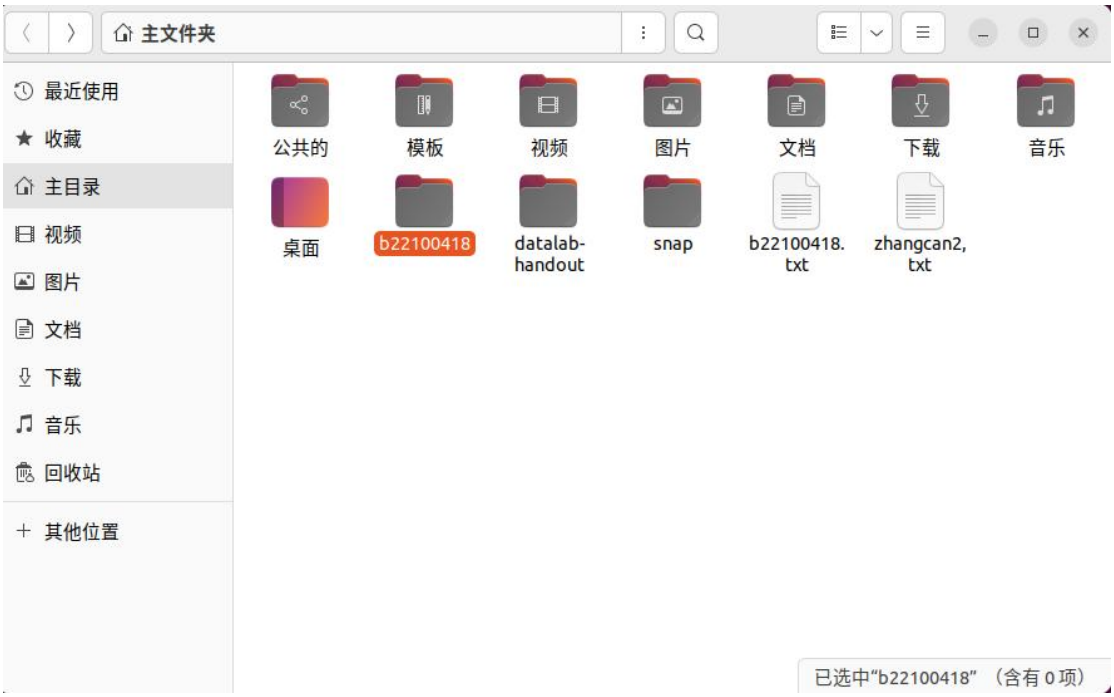

图 4 第二题-2

```
b22100418@b22100418-virtual-machine:~/桌面$ whoami
b22100418
b22100418@b22100418-virtual-machine:~/桌面$ sudo su root
[sudo] b22100418 的密码：
root@b22100418-virtual-machine:/home/b22100418/桌面# groupadd student
root@b22100418-virtual-machine:/home/b22100418/桌面# whoami
root
root@b22100418-virtual-machine:/home/b22100418/桌面# adduser b22100418
adduser：用户"b22100418"已经存在。
root@b22100418-virtual-machine:/home/b22100418/桌面# usermod -g student b22100418
root@b22100418-virtual-machine:/home/b22100418/桌面# su b22100418
b22100418@b22100418-virtual-machine:~/桌面$ cd ~
b22100418@b22100418-virtual-machine:~$ touch zhangcan.txt
b22100418@b22100418-virtual-machine:~$ ls -l
总计 36
drwxr-xr-x 2 b22100418 student 4096  4月  6  2024 公共的
drwxr-xr-x 2 b22100418 student 4096  4月  6  2024 模板
drwxr-xr-x 2 b22100418 student 4096  4月  6  2024 视频
drwxr-xr-x 2 b22100418 student 4096  4月  6  2024 图片
drwxr-xr-x 2 b22100418 student 4096  4月  6  2024 文档
drwxr-xr-x 2 b22100418 student 4096  6月 12 19:16 下载
drwxr-xr-x 2 b22100418 student 4096  4月  6  2024 音乐
drwxr-xr-x 3 b22100418 student 4096 10月 12 10:27 桌面
drwxrwxr-x 2 b22100418 student 4096  4月  6  2024 datalab-handout
-rw-r--r-- 1 b22100418 student    0 10月 20 01:52 zhangcan.txt
b22100418@b22100418-virtual-machine:~$
```

图 5 第三题

```
b22100418@b22100418-virtual-machine:~/桌面$ touch demo
b22100418@b22100418-virtual-machine:~/桌面$ chmod 777 demo
b22100418@b22100418-virtual-machine:~/桌面$ chmod a-x demo
b22100418@b22100418-virtual-machine:~/桌面$ ls -l demo
-rw-rw-rw- 1 b22100418 student 0 10月 21 00:05 demo
b22100418@b22100418-virtual-machine:~/桌面$ chmod go-w demo
b22100418@b22100418-virtual-machine:~/桌面$ ls -l demo
-rw-r--r-- 1 b22100418 student 0 10月 21 00:05 demo
b22100418@b22100418-virtual-machine:~/桌面$ chmod g+w demo
b22100418@b22100418-virtual-machine:~/桌面$ ls -l demo
-rw-rw-r-- 1 b22100418 student 0 10月 21 00:05 demo
b22100418@b22100418-virtual-machine:~/桌面$ chmod a=  demo
b22100418@b22100418-virtual-machine:~/桌面$ ls -l demo
---------- 1 b22100418 student 0 10月 21 00:05 demo
b22100418@b22100418-virtual-machine:~/桌面$ chmod +t demo
b22100418@b22100418-virtual-machine:~/桌面$ ls -l demo
---------T 1 b22100418 student 0 10月 21 00:05 demo
b22100418@b22100418-virtual-machine:~/桌面$ chmod u+s demo
b22100418@b22100418-virtual-machine:~/桌面$ ls -l demo
---S-----T 1 b22100418 student 0 10月 21 00:05 demo
b22100418@b22100418-virtual-machine:~/桌面$ chmod u+rx demo
b22100418@b22100418-virtual-machine:~/桌面$ ls -l demo
-r-s-----T 1 b22100418 student 0 10月 21 00:05 demo
b22100418@b22100418-virtual-machine:~/桌面$ chmod g+rws demo
b22100418@b22100418-virtual-machine:~/桌面$ ls -l demo
-r-srwS--T 1 b22100418 student 0 10月 21 00:05 demo
b22100418@b22100418-virtual-machine:~/桌面$
```

图 6 第四题

```
b22100418@b22100418-virtual-machine:~/others$ tar -czvf backup.tar.gz others
tar: others：无法 stat：没有那个文件或目录
tar: 由于前次错误，将以上次的错误状态退出
b22100418@b22100418-virtual-machine:~/others$ ls -l
总计 4
-rw-r--r-- 1 b22100418 student  0 10月 21 00:09 1
-rw-r--r-- 1 b22100418 student  0 10月 21 00:09 2
-rw-r--r-- 1 b22100418 student 45 10月 21 00:12 backup.tar.gz
b22100418@b22100418-virtual-machine:~/others$ tar -xzvf backup.tar.gz
b22100418@b22100418-virtual-machine:~/others$ ls -l
总计 4
-rw-r--r-- 1 b22100418 student  0 10月 21 00:09 1
-rw-r--r-- 1 b22100418 student  0 10月 21 00:09 2
-rw-r--r-- 1 b22100418 student 45 10月 21 00:12 backup.tar.gz
b22100418@b22100418-virtual-machine:~/others$
```

图 7 第五题-1

```
b22100418@b22100418-virtual-machine:~/others$ touch 3.txt
b22100418@b22100418-virtual-machine:~/others$ nano 3.txt
b22100418@b22100418-virtual-machine:~/others$ grep '^n' 3.txt
no, I study in njupt.
b22100418@b22100418-virtual-machine:~/others$ grep '\.00$' 3.txt
this line ends with .00
He is 15. It is 16.00
b22100418@b22100418-virtual-machine:~/others$ grep '5\..' 3.txt
He is 15. It is 16.00
b22100418@b22100418-virtual-machine:~/others$ grep '^[wy]' 3.txt
wy is the short of my name.
b22100418@b22100418-virtual-machine:~/others$
```

图 8 第五题-2