

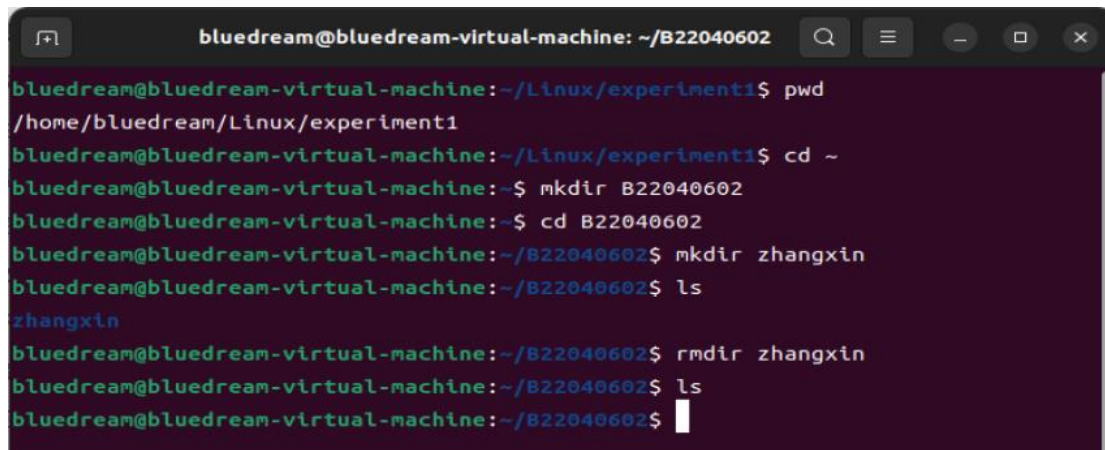
B22040602 张欣 我的虚拟机用户名为 blue dream.

1_1Directory Operation

Enter the following commands in sequence:

Save a screenshot of the above command along with the corresponding results, you must have

your student number and name.

A terminal window titled 'blue dream@blue dream-virtual-machine: ~/B22040602'. The terminal shows a sequence of commands and their outputs: 'pwd' returns '/home/blue dream/Linux/experiment1'; 'cd ~' changes the directory to the home directory; 'mkdir B22040602' creates a new directory; 'cd B22040602' changes to that directory; 'mkdir zhangxin' creates a subdirectory; 'ls' lists the contents, showing 'zhangxin'; 'rmdir zhangxin' removes the subdirectory; 'ls' is run again, showing an empty directory.

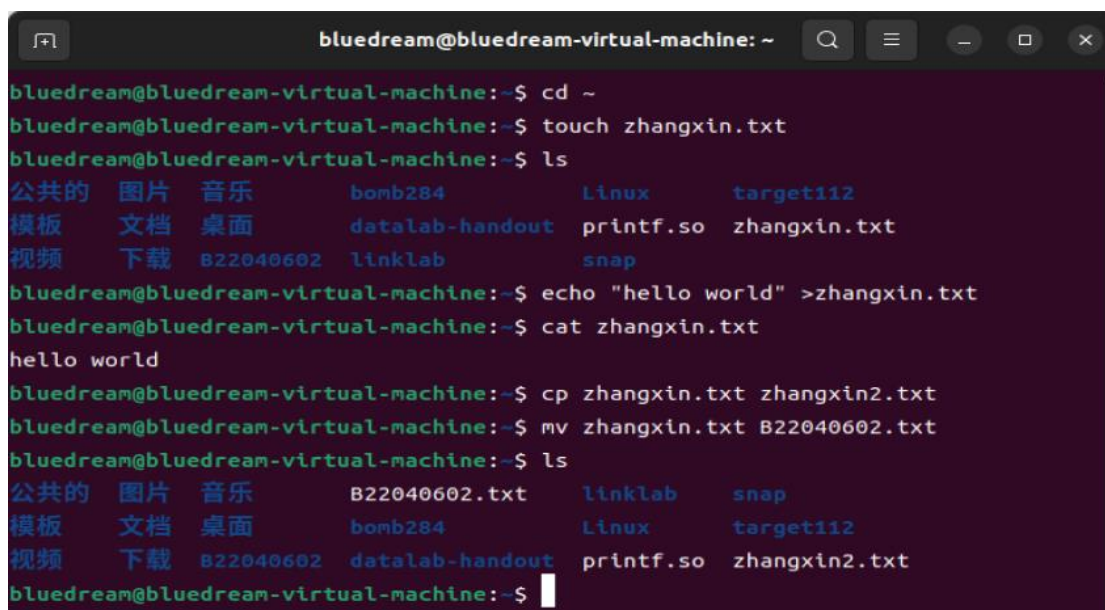
```
blue dream@blue dream-virtual-machine: ~/Linux/experiment1$ pwd
/home/blue dream/Linux/experiment1
blue dream@blue dream-virtual-machine: ~/Linux/experiment1$ cd ~
blue dream@blue dream-virtual-machine: ~$ mkdir B22040602
blue dream@blue dream-virtual-machine: ~$ cd B22040602
blue dream@blue dream-virtual-machine: ~/B22040602$ mkdir zhangxin
blue dream@blue dream-virtual-machine: ~/B22040602$ ls
zhangxin
blue dream@blue dream-virtual-machine: ~/B22040602$ rmdir zhangxin
blue dream@blue dream-virtual-machine: ~/B22040602$ ls
blue dream@blue dream-virtual-machine: ~/B22040602$
```

1_2File operation

Enter the following commands in sequence:

Save a screenshot of the above command along with the corresponding results, you must have

your student number and name.

A terminal window titled 'blue dream@blue dream-virtual-machine: ~'. The terminal shows a sequence of commands and their outputs: 'cd ~' changes to the home directory; 'touch zhangxin.txt' creates a file; 'ls' lists the contents, showing 'zhangxin.txt' among other files; 'echo "hello world" >zhangxin.txt' writes text to the file; 'cat zhangxin.txt' displays the text 'hello world'; 'cp zhangxin.txt zhangxin2.txt' creates a copy; 'mv zhangxin.txt B22040602.txt' renames the file; 'ls' is run again, showing 'B22040602.txt' in the current directory.

```
blue dream@blue dream-virtual-machine: ~$ cd ~
blue dream@blue dream-virtual-machine: ~$ touch zhangxin.txt
blue dream@blue dream-virtual-machine: ~$ ls
公共的 图片 音乐      bomb284      Linux      target112
模板   文档 桌面      datalab-handout printf.so  zhangxin.txt
视频   下载 B22040602 linklab      snap
blue dream@blue dream-virtual-machine: ~$ echo "hello world" >zhangxin.txt
blue dream@blue dream-virtual-machine: ~$ cat zhangxin.txt
hello world
blue dream@blue dream-virtual-machine: ~$ cp zhangxin.txt zhangxin2.txt
blue dream@blue dream-virtual-machine: ~$ mv zhangxin.txt B22040602.txt
blue dream@blue dream-virtual-machine: ~$ ls
公共的 图片 音乐      B22040602.txt  linklab      snap
模板   文档 桌面      bomb284      Linux      target112
视频   下载 B22040602 datalab-handout printf.so  zhangxin2.txt
blue dream@blue dream-virtual-machine: ~$
```

1_3User Management

Enter the following commands in sequence:

Enter the password of the current logged-in user, not the root password, and then enter:

Follow the prompts to create the user and add the user to the student group.

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

```
root@blue dream-virtual-machine: /home/blue dream
blue dream@blue dream-virtual-machine:~$ whoami
blue dream
blue dream@blue dream-virtual-machine:~$ sudo su root
[sudo] blue dream 的密码:
root@blue dream-virtual-machine: /home/blue dream# groupadd student
groupadd: "student"组已存在
root@blue dream-virtual-machine: /home/blue dream# whoami
root

root@blue dream-virtual-machine: /home/blue dream# adduser b22040602
正在添加用户"b22040602"...
正在添加新组"b22040602" (1003)...
正在添加新用户"b22040602" (1002) 到组"b22040602"...
创建主目录"/home/b22040602"...
正在从"/etc/skel"复制文件...
新的密码:
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 b22040602 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 []:

root@blue dream-virtual-machine: /home/blue dream# su b22040602
b22040602@blue dream-virtual-machine: /home/blue dream$ cd ~
b22040602@blue dream-virtual-machine:~$ touch zhangxin.txt
b22040602@blue dream-virtual-machine:~$ ls -l
总计 0
-rw-rw-r-- 1 b22040602 b22040602 0 10月 14 10:42 zhangxin.txt
b22040602@blue dream-virtual-machine:~$
```

1_4Permission management

Enter the following commands in sequence: After entering each line, run ls -l demo to view the result.

```

b22040602@bluedream-virtual-machine:~$ touch demo
b22040602@bluedream-virtual-machine:~$ chmod 777 demo
b22040602@bluedream-virtual-machine:~$ chmod a-x demo
b22040602@bluedream-virtual-machine:~$ ls -l
总计 0
-rw-rw-rw- 1 b22040602 b22040602 0 10月 14 18:20 demo
-rw-rw-r-- 1 b22040602 b22040602 0 10月 14 10:42 zhangxin.txt
b22040602@bluedream-virtual-machine:~$ chmod go-w demo
b22040602@bluedream-virtual-machine:~$ ls -l
总计 0
-rw-r--r-- 1 b22040602 b22040602 0 10月 14 18:20 demo
-rw-rw-r-- 1 b22040602 b22040602 0 10月 14 10:42 zhangxin.txt
b22040602@bluedream-virtual-machine:~$ chmod g+w demo
b22040602@bluedream-virtual-machine:~$ ls -l
总计 0
-rw-rw-r-- 1 b22040602 b22040602 0 10月 14 18:20 demo
-rw-rw-r-- 1 b22040602 b22040602 0 10月 14 10:42 zhangxin.txt
b22040602@bluedream-virtual-machine:~$ chmod a= demo
b22040602@bluedream-virtual-machine:~$ ls -l
总计 0

```

```

b22040602@bluedream-virtual-machine: ~
总计 0
----- 1 b22040602 b22040602 0 10月 14 18:20 demo
-rw-rw-r-- 1 b22040602 b22040602 0 10月 14 10:42 zhangxin.txt
b22040602@bluedream-virtual-machine:~$ chmod +t demo
b22040602@bluedream-virtual-machine:~$ ls -l
总计 0
-----T 1 b22040602 b22040602 0 10月 14 18:20 demo
-rw-rw-r-- 1 b22040602 b22040602 0 10月 14 10:42 zhangxin.txt
b22040602@bluedream-virtual-machine:~$ chmod u+s demo
b22040602@bluedream-virtual-machine:~$ ls -l
总计 0
---S-----T 1 b22040602 b22040602 0 10月 14 18:20 demo
-rw-rw-r-- 1 b22040602 b22040602 0 10月 14 10:42 zhangxin.txt
b22040602@bluedream-virtual-machine:~$ chmod u+rx demo
b22040602@bluedream-virtual-machine:~$ ls -l
总计 0
-r-s-----T 1 b22040602 b22040602 0 10月 14 18:20 demo
-rw-rw-r-- 1 b22040602 b22040602 0 10月 14 10:42 zhangxin.txt
b22040602@bluedream-virtual-machine:~$ chmod g+rws demo
b22040602@bluedream-virtual-machine:~$ ls -l
总计 0
-r-srws---T 1 b22040602 b22040602 0 10月 14 18:20 demo
-rw-rw-r-- 1 b22040602 b22040602 0 10月 14 10:42 zhangxin.txt
b22040602@bluedream-virtual-machine:~$

```

1_5Other 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. Observe 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

```
bluedream@bluedream-virtual-machine:~/others$ touch 1.txt
bluedream@bluedream-virtual-machine:~/others$ touch 2.txt
bluedream@bluedream-virtual-machine:~/others$ tar -czvf backup.tar.gz others
```

```
bluedream@bluedream-virtual-machine:~/others$ cd ~
bluedream@bluedream-virtual-machine:~$ tar -czvf backup.tar.gz others
others/
others/2.txt
others/1.txt
others/backup.tar.gz
bluedream@bluedream-virtual-machine:~$ ls -l
总计 64
drwxr-xr-x 2 bluedream bluedream 4096 4月 1 2024 公共的
drwxr-xr-x 2 bluedream bluedream 4096 4月 1 2024 模板
drwxr-xr-x 2 bluedream bluedream 4096 4月 1 2024 视频
drwxr-xr-x 3 bluedream bluedream 4096 4月 1 2024 图片
drwxr-xr-x 2 bluedream bluedream 4096 4月 1 2024 文档
drwxr-xr-x 2 bluedream bluedream 4096 6月 17 20:15 下载
drwxr-xr-x 2 bluedream bluedream 4096 4月 1 2024 音乐
drwxr-xr-x 2 bluedream bluedream 4096 10月 14 10:07 桌面
drwxrwxr-x 2 bluedream bluedream 4096 10月 14 10:11 B22040602
-rw-rw-r-- 1 bluedream bluedream 12 10月 14 10:15 B22040602.txt
-rw-rw-r-- 1 bluedream bluedream 247 10月 14 18:37 backup.tar.gz
```

```
drwxrwxr-x 6 bluedream bluedream 4096 10月 14 18:36 bomb
-rw-rw-rw- 1 bluedream bluedream 0 10月 14 18:21 demo
drwxrwxr-x 3 bluedream bluedream 4096 10月 14 10:07 linux
drwxrwxr-x 2 bluedream bluedream 4096 10月 14 18:37 others
drwx----- 5 bluedream bluedream 4096 4月 1 2024 snap
-rw-rw-r-- 1 bluedream bluedream 12 10月 14 10:15 zhangxin2.txt
bluedream@bluedream-virtual-machine:~$ tar -xzvf backup.tar.gz
others/
others/2.txt
others/1.txt
others/backup.tar.gz
bluedream@bluedream-virtual-machine:~$ ls -l
总计 64
drwxr-xr-x 2 bluedream bluedream 4096 4月 1 2024 公共的
drwxr-xr-x 2 bluedream bluedream 4096 4月 1 2024 模板
drwxr-xr-x 2 bluedream bluedream 4096 4月 1 2024 视频
drwxr-xr-x 3 bluedream bluedream 4096 4月 1 2024 图片
drwxr-xr-x 2 bluedream bluedream 4096 4月 1 2024 文档
drwxr-xr-x 2 bluedream bluedream 4096 6月 17 20:15 下载
drwxr-xr-x 2 bluedream bluedream 4096 4月 1 2024 音乐
drwxr-xr-x 2 bluedream bluedream 4096 10月 14 10:07 桌面
drwxrwxr-x 2 bluedream bluedream 4096 10月 14 10:11 B22040602
-rw-rw-r-- 1 bluedream bluedream 12 10月 14 10:15 B22040602.txt
-rw-rw-r-- 1 bluedream bluedream 247 10月 14 18:37 backup.tar.gz
```

```
drwxrwxr-x 6 blue dream blue dream 4096 10月 14 18:36 bomb
-rw-rw-rw- 1 blue dream blue dream 0 10月 14 18:21 demo
drwxrwxr-x 3 blue dream blue dream 4096 10月 14 10:07 Linux
drwxrwxr-x 2 blue dream blue dream 4096 10月 14 18:37 others
drwx----- 5 blue dream blue dream 4096 4月 1 2024 snap
-rw-rw-r-- 1 blue dream blue dream 12 10月 14 10:15 zhangxin2.txt
```

```
blue dream@blue dream-virtual-machine:~$ touch textfile
blue dream@blue dream-virtual-machine:~$ echo "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." >> textfile
```

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