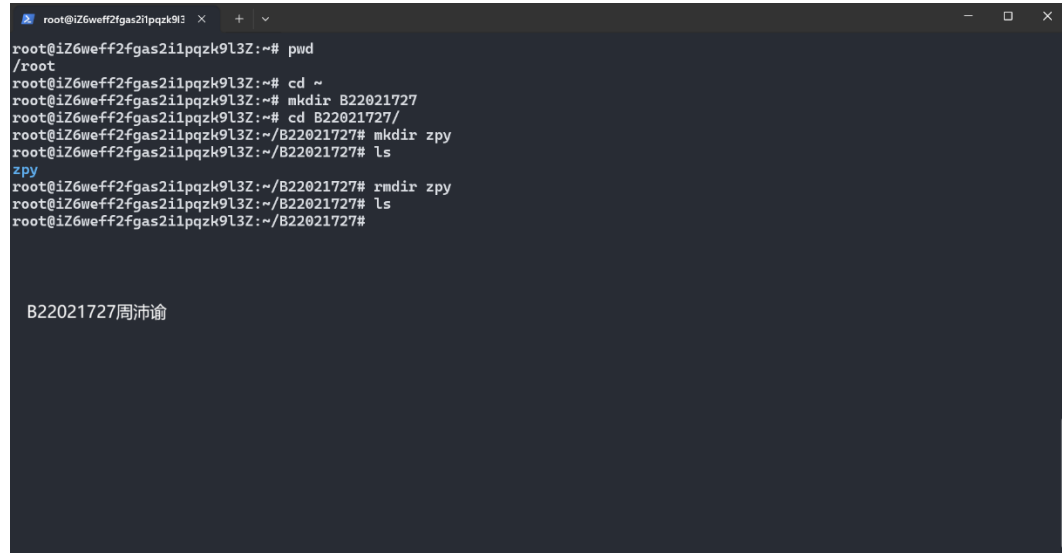


(1) Directory Operation

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.

结果:



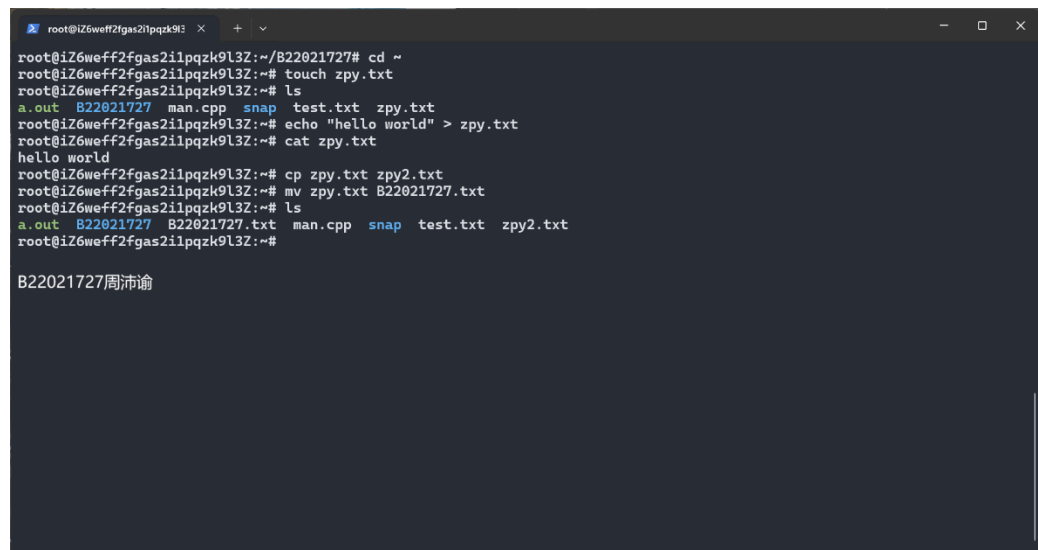
```
root@iZ6weff2fgas2ilpqzk9L3Z:~# pwd
/root
root@iZ6weff2fgas2ilpqzk9L3Z:~# cd ~
root@iZ6weff2fgas2ilpqzk9L3Z:~# mkdir B22021727
root@iZ6weff2fgas2ilpqzk9L3Z:~# cd B22021727/
root@iZ6weff2fgas2ilpqzk9L3Z:~/B22021727# mkdir zpy
root@iZ6weff2fgas2ilpqzk9L3Z:~/B22021727# ls
zpy
root@iZ6weff2fgas2ilpqzk9L3Z:~/B22021727# rmdir zpy
root@iZ6weff2fgas2ilpqzk9L3Z:~/B22021727# ls
root@iZ6weff2fgas2ilpqzk9L3Z:~/B22021727#
```

B22021727周沛谕

(2) File 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.

结果:



```
root@iZ6weff2fgas2ilpqzk9L3Z:~/B22021727# cd ~
root@iZ6weff2fgas2ilpqzk9L3Z:~# touch zpy.txt
root@iZ6weff2fgas2ilpqzk9L3Z:~# ls
a.out  B22021727  man.cpp  snap  test.txt  zpy.txt
root@iZ6weff2fgas2ilpqzk9L3Z:~# echo "hello world" > zpy.txt
root@iZ6weff2fgas2ilpqzk9L3Z:~# cat zpy.txt
hello world
root@iZ6weff2fgas2ilpqzk9L3Z:~# cp zpy.txt zpy2.txt
root@iZ6weff2fgas2ilpqzk9L3Z:~# mv zpy.txt B22021727.txt
root@iZ6weff2fgas2ilpqzk9L3Z:~# ls
a.out  B22021727  B22021727.txt  man.cpp  snap  test.txt  zpy2.txt
root@iZ6weff2fgas2ilpqzk9L3Z:~#
```

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(3) User 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.

结果:

```
b22021727@Ethans-Laptop: ~  
eth64@Ethans-Laptop:~$ whoami  
eth64  
eth64@Ethans-Laptop:~$ sudo su root  
[sudo] password for eth64:  
root@Ethans-Laptop:/home/eth64# groupadd student  
root@Ethans-Laptop:/home/eth64# whoami  
root  
root@Ethans-Laptop:/home/eth64# adduser B22021727  
adduser: Please enter a username matching the regular expression configured  
via the NAME_REGEX[_SYSTEM] configuration variable. Use the '--force-badnam  
e'  
option to relax this check or reconfigure NAME_REGEX.  
root@Ethans-Laptop:/home/eth64# adduser b22021727  
Adding user `b22021727' ...  
Adding new group `b22021727' (1002) ...  
Adding new user `b22021727' (1001) with group `b22021727' ...  
Creating home directory `/home/b22021727' ...  
Copying files from `/etc/skel' ...  
New password:  
Retype new password:  
No password has been supplied.  
New password:  
Retype new password:  
passwd: password updated successfully  
Changing the user information for b22021727  
Enter the new value, or press ENTER for the default  
Full Name []:  
Room Number []:  
Work Phone []:  
Home Phone []:  
Other []:  
Is the information correct? [Y/n] y  
root@Ethans-Laptop:/home/eth64# usermod -g student b220217  
root@Ethans-Laptop:/home/eth64# su b22021727  
b22021727@Ethans-Laptop:/home/eth64$ cd ~  
b22021727@Ethans-Laptop:~$ touch zpy.txt  
b22021727@Ethans-Laptop:~$ ls -l  
total 0  
-rw-r--r-- 1 b22021727 student 0 Oct 14 10:17 zpy.txt
```

(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. 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

结果:

```
eth64@Ethans-Laptop: ~/exp$ touch demo
eth64@Ethans-Laptop:~/exp$ chmod 777 demo
eth64@Ethans-Laptop:~/exp$ ls -l
total 0
-rwxrwxrwx 1 eth64 eth64 0 Oct 14 10:31 demo
eth64@Ethans-Laptop:~/exp$ chmod a-x demo
eth64@Ethans-Laptop:~/exp$ ls -l
total 0
-rw-rw-rw- 1 eth64 eth64 0 Oct 14 10:31 demo
eth64@Ethans-Laptop:~/exp$ chmod go-w demo
eth64@Ethans-Laptop:~/exp$ ls -l
total 0
-rw-r--r-- 1 eth64 eth64 0 Oct 14 10:31 demo
eth64@Ethans-Laptop:~/exp$ chmod g+w demo
eth64@Ethans-Laptop:~/exp$ ls -l
total 0
-rw-rw-r-- 1 eth64 eth64 0 Oct 14 10:31 demo
eth64@Ethans-Laptop:~/exp$ chmod a= demo
eth64@Ethans-Laptop:~/exp$ ls -l
total 0
----- 1 eth64 eth64 0 Oct 14 10:31 demo
eth64@Ethans-Laptop:~/exp$ chmod +t demo
eth64@Ethans-Laptop:~/exp$ ls -l
total 0
-----T 1 eth64 eth64 0 Oct 14 10:31 demo
eth64@Ethans-Laptop:~/exp$ chmod u+s demo
eth64@Ethans-Laptop:~/exp$ ls -l
total 0
---S-----T 1 eth64 eth64 0 Oct 14 10:31 demo
eth64@Ethans-Laptop:~/exp$ chmod u+rx demo
eth64@Ethans-Laptop:~/exp$ ls -l
total 0
-r-s-----T 1 eth64 eth64 0 Oct 14 10:31 demo
eth64@Ethans-Laptop:~/exp$ chmod g+rws demo
eth64@Ethans-Laptop:~/exp$ ls -l
total 0
-r-srws--T 1 eth64 eth64 0 Oct 14 10:31 demo
eth64@Ethans-Laptop:~/exp$
```

```
root@iZ6weff2fgas2ilpqzk9l3Z:~# mkdir others
root@iZ6weff2fgas2ilpqzk9l3Z:~# cd others/
root@iZ6weff2fgas2ilpqzk9l3Z:~/others# touch aaa.cpp
root@iZ6weff2fgas2ilpqzk9l3Z:~/others# touch bbb.txt
root@iZ6weff2fgas2ilpqzk9l3Z:~/others# cd ..
root@iZ6weff2fgas2ilpqzk9l3Z:~# tar -czvf backup.tar.gz others
others/
others/bbb.txt
others/aaa.cpp
root@iZ6weff2fgas2ilpqzk9l3Z:~# ls -l
total 52
-rwxr-xr-x 1 root root 16528 Sep 14 11:04 a.out
drwxr-xr-x 2 root root 4096 Oct 14 09:59 B22021727
-rw-r--r-- 1 root root 12 Oct 14 10:02 B22021727.txt
-rw-r--r-- 1 root root 160 Oct 14 10:41 backup.tar.gz
-rw-r--r-- 1 root root 142 Sep 9 10:37 man.cpp
drwxr-xr-x 2 root root 4096 Oct 14 10:40 others
drwx----- 3 root root 4096 Jun 3 15:41 snap
-rw-r--r-- 1 root root 30 Sep 9 10:35 test.txt
-rw-r--r-- 1 root root 12 Oct 14 10:03 zpy2.txt
root@iZ6weff2fgas2ilpqzk9l3Z:~# tar -xzvf backup.tar.gz
others/
others/bbb.txt
others/aaa.cpp
root@iZ6weff2fgas2ilpqzk9l3Z:~# ls -l
total 52
-rwxr-xr-x 1 root root 16528 Sep 14 11:04 a.out
drwxr-xr-x 2 root root 4096 Oct 14 09:59 B22021727
-rw-r--r-- 1 root root 12 Oct 14 10:02 B22021727.txt
-rw-r--r-- 1 root root 160 Oct 14 10:41 backup.tar.gz
-rw-r--r-- 1 root root 142 Sep 9 10:37 man.cpp
drwxr-xr-x 2 root root 4096 Oct 14 10:40 others
drwx----- 3 root root 4096 Jun 3 15:41 snap
-rw-r--r-- 1 root root 30 Sep 9 10:35 test.txt
-rw-r--r-- 1 root root 12 Oct 14 10:03 zpy2.txt
root@iZ6weff2fgas2ilpqzk9l3Z:~#
```

```
root@iZ6weff2fgas2i1pqzk9l3Z:~# nano text.txt
root@iZ6weff2fgas2i1pqzk9l3Z:~# grep '^n' text.txt
no, I study in njupt.
root@iZ6weff2fgas2i1pqzk9l3Z:~# grep '\.00$' text.txt
this line ends with .00
He is 15. It is 16.00
root@iZ6weff2fgas2i1pqzk9l3Z:~# grep '5\..' text.txt
He is 15. It is 16.00
root@iZ6weff2fgas2i1pqzk9l3Z:~# grep '^[wy]' text.txt
wy is the short of my name.
root@iZ6weff2fgas2i1pqzk9l3Z:~#
```

B22021727周沛渝