Directory Operation

```
genshinya@DESKTOP-OT5RO5C:~$ pwd
/home/genshinya
genshinya@DESKTOP-OT5RO5C:~$ cd ~
genshinya@DESKTOP-OT5RO5C:~$ mkdir B22040515
genshinya@DESKTOP-OT5RO5C:~$ cd B22040515/
genshinya@DESKTOP-OT5RO5C:~/B22040515$ mkdir 张进涛
genshinya@DESKTOP-OT5RO5C:~/B22040515$ ls
张进涛
genshinya@DESKTOP-OT5RO5C:~/B22040515$ rmdir 张进涛
genshinya@DESKTOP-OT5RO5C:~/B22040515$ ls
genshinya@DESKTOP-OT5RO5C:~/B22040515$ 
```

File operation

```
genshinya@DESKTOP-OT5RO5C:~$ touch 张进涛.txt
genshinya@DESKTOP-OT5RO5C:~$ ls
B22040515  RepoLab  exp1.sh  try  张进涛.txt
genshinya@DESKTOP-OT5RO5C:~$ echo "hello world" > 张进涛.txt
genshinya@DESKTOP-OT5RO5C:~$ cat 张进涛.txt
hello world
genshinya@DESKTOP-OT5RO5C:~$ cp 张进涛.txt 张进涛2.txt
genshinya@DESKTOP-OT5RO5C:~$ mv 张进涛.txt B22040515.txt
genshinya@DESKTOP-OT5RO5C:~$ ls
B22040515  B22040515.txt  RepoLab  exp1.sh  try  张进涛2.txt
genshinya@DESKTOP-OT5RO5C:~$ 
```

User Management

```
genshinya@DESKTOP-OT5RO5C:~$ whoami
genshinya
genshinya@DESKTOP-OT5RO5C:~$ sudo su root
[sudo] password for genshinya:
root@DESKTOP-OT5RO5C:/home/genshinya# groupadd student
root@DESKTOP-OT5RO5C:/home/genshinya# whoami
root
root@DESKTOP-OT5RO5C:/home/genshinya# adduser B22040515
adduser: Please enter a username matching the regular expre
ssion configured
via the NAME_REGEX[_SYSTEM] configuration variable.  Use th
e `--force-badname'
option to relax this check or reconfigure NAME_REGEX.
root@DESKTOP-OT5RO5C:/home/genshinya# adduser b22040515
Adding user `b22040515' ...
Adding new group `b22040515' (1002) ...
Adding new user `b22040515' (1001) with group `b22040515' .
..
Creating home directory `/home/b22040515' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for b22040515
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@DESKTOP-OT5RO5C:/home/genshinya# usermod -g student b2
2040515
root@DESKTOP-OT5RO5C:/home/genshinya# su b22040515
b22040515@DESKTOP-OT5RO5C:/home/genshinya$ cd ~
b22040515@DESKTOP-OT5RO5C:~$ touch 张进涛.txt
b22040515@DESKTOP-OT5RO5C:~$ ls -l
total 0
-rw-r--r-- 1 b22040515 student 0 Dec 27 06:16 张进涛.txt
b22040515@DESKTOP-OT5RO5C:~$
```

Permission management

```
b22040515@DESKTOP-OT5RO5C:~$ touch demo
b22040515@DESKTOP-OT5RO5C:~$ chmod 777 demo; ls -l
total 0
-rwxrwxrwx 1 b22040515 student 0 Dec 27 06:17 demo
-rw-r--r-- 1 b22040515 student 0 Dec 27 06:16 张进涛.txt
b22040515@DESKTOP-OT5RO5C:~$ chmod a-x demo; ls -l
total 0
-rw-rw-rw- 1 b22040515 student 0 Dec 27 06:17 demo
-rw-r--r-- 1 b22040515 student 0 Dec 27 06:16 张进涛.txt
b22040515@DESKTOP-OT5RO5C:~$ chmod go-w demo; ls -l
total 0
-rw-r--r-- 1 b22040515 student 0 Dec 27 06:17 demo
-rw-r--r-- 1 b22040515 student 0 Dec 27 06:16 张进涛.txt
b22040515@DESKTOP-OT5RO5C:~$ chmod g+w demo; ls -l
total 0
-rw-rw-r-- 1 b22040515 student 0 Dec 27 06:17 demo
-rw-r--r-- 1 b22040515 student 0 Dec 27 06:16 张进涛.txt
b22040515@DESKTOP-OT5RO5C:~$ chmod a= demo; ls -l
total 0
---------- 1 b22040515 student 0 Dec 27 06:17 demo
-rw-r--r-- 1 b22040515 student 0 Dec 27 06:16 张进涛.txt
b22040515@DESKTOP-OT5RO5C:~$ chmod +t demo; ls -l
total 0
---------T 1 b22040515 student 0 Dec 27 06:17 demo
-rw-r--r-- 1 b22040515 student 0 Dec 27 06:16 张进涛.txt
b22040515@DESKTOP-OT5RO5C:~$ chmod u+s demo; ls -l
total 0
---S-----T 1 b22040515 student 0 Dec 27 06:17 demo
-rw-r--r-- 1 b22040515 student 0 Dec 27 06:16 张进涛.txt
b22040515@DESKTOP-OT5RO5C:~$ chmod u+rx demo; ls -l
total 0
-r-s-----T 1 b22040515 student 0 Dec 27 06:17 demo
-rw-r--r-- 1 b22040515 student 0 Dec 27 06:16 张进涛.txt
b22040515@DESKTOP-OT5RO5C:~$ chmod g+rws demo; ls -l
total 0
-r-srwS--T 1 b22040515 student 0 Dec 27 06:17 demo
-rw-r--r-- 1 b22040515 student 0 Dec 27 06:16 张进涛.txt
b22040515@DESKTOP-OT5RO5C:~$ 
```

Other management

```
b22040515@DESKTOP-OT5RO5C:~$ mkdir others
b22040515@DESKTOP-OT5RO5C:~$ cd others/
b22040515@DESKTOP-OT5RO5C:~/others$ touch 1
b22040515@DESKTOP-OT5RO5C:~/others$ touch 2
b22040515@DESKTOP-OT5RO5C:~/others$ cd ..
b22040515@DESKTOP-OT5RO5C:~$ tar -czvf backup.tar.gz others
others/
others/1
others/2
b22040515@DESKTOP-OT5RO5C:~$ tar -xzvf backup.tar.gz
others/
others/1
others/2
b22040515@DESKTOP-OT5RO5C:~$ ls -l
total 8
-rw-r--r-- 1 b22040515 student  159 Dec 27 06:28 backup.tar
.gz
-r-srwS--T 1 b22040515 student    0 Dec 27 06:17 demo
drwxr-xr-x 2 b22040515 student 4096 Dec 27 06:27 others
-rw-r--r-- 1 b22040515 student    0 Dec 27 06:16 张进涛.txt
b22040515@DESKTOP-OT5RO5C:~$
```

```
genshinya@DESKTOP-OT5RO5C:~$ nvim test.txt
genshinya@DESKTOP-OT5RO5C:~$ grep '^n' test.txt
no, I study in njupt.
genshinya@DESKTOP-OT5RO5C:~$ grep '\.00$' test.txt
this line ends with .00
He is 15. It is 16.00
genshinya@DESKTOP-OT5RO5C:~$ grep '5\..' test.txt
He is 15. It is 16.00
genshinya@DESKTOP-OT5RO5C:~$ grep '^[wy]' test.txt
wy is the short of my name.
genshinya@DESKTOP-OT5RO5C:~$
```