（1）Directory Operation


```
yy@DESKTOP-JAKN2L5:~$ pwd
/home/yy
yy@DESKTOP-JAKN2L5:~$ cd ~
yy@DESKTOP-JAKN2L5:~$ mkdir B21030228
yy@DESKTOP-JAKN2L5:~$ cd B21030228/
yy@DESKTOP-JAKN2L5:~/B21030228$ ls
yy@DESKTOP-JAKN2L5:~/B21030228$ mkdir 俞跃
yy@DESKTOP-JAKN2L5:~/B21030228$ ls
俞跃
yy@DESKTOP-JAKN2L5:~/B21030228$ rmdir 俞跃
yy@DESKTOP-JAKN2L5:~/B21030228$ ls
yy@DESKTOP-JAKN2L5:~/B21030228$
```

(2) File operation


```
yy@DESKTOP-JAKN2L5:~/B21030228$ cd ~
yy@DESKTOP-JAKN2L5:~$ touch 俞跃.txt
yy@DESKTOP-JAKN2L5:~$ ls
B21030228  俞跃.txt
yy@DESKTOP-JAKN2L5:~$ echo "hello world" >俞跃.txt
yy@DESKTOP-JAKN2L5:~$ cat 俞跃.txt
hello world
yy@DESKTOP-JAKN2L5:~$ cp 俞跃.txt 俞跃2.txt
yy@DESKTOP-JAKN2L5:~$ mv 俞跃.txt B21030228.txt
yy@DESKTOP-JAKN2L5:~$ ls
B21030228  B21030228.txt  俞跃2.txt
yy@DESKTOP-JAKN2L5:~$
```

(3)User Management

```
yy@DESKTOP-JAKN2L5:~$ whoami
yy
yy@DESKTOP-JAKN2L5:~$ sudo su root
[sudo] password for yy:
Sorry, try again.
[sudo] password for yy:
root@DESKTOP-JAKN2L5:/home/yy# groupadd student
root@DESKTOP-JAKN2L5:/home/yy# whoami
root
root@DESKTOP-JAKN2L5:/home/yy# adduser B21030228
err: Please enter a username matching the regular expression
          configured via the NAME_REGEX configuration variable.  Use the
          `--allow-bad-names' option to relax this check or reconfigure
          NAME_REGEX in configuration.
root@DESKTOP-JAKN2L5:/home/yy# adduser b21030228
info: Adding user `b21030228' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `b21030228' (1002) ...
info: Adding new user `b21030228' (1002) with group `b21030228 (1002)' ...
info: Creating home directory '/home/b21030228' ...
info: Copying files from '/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for b21030228
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]
info: Adding new user `b21030228' to supplemental / extra groups `users' ...
info: Adding user `b21030228' to group `users' ...
root@DESKTOP-JAKN2L5:/home/yy# usermod -g student b21030228
root@DESKTOP-JAKN2L5:/home/yy# su b21030228
b21030228@DESKTOP-JAKN2L5:/home/yy$ cd ~
b21030228@DESKTOP-JAKN2L5:~$ touch 俞跃.txt
b21030228@DESKTOP-JAKN2L5:~$ ls -l
total 0
-rw-r--r-- 1 b21030228 student 0 Dec 28 16:09 俞跃.txt
b21030228@DESKTOP-JAKN2L5:~$
```

(4) Permission management

```
b21030228@DESKTOP-JAKN2L5:~$ touch demo
b21030228@DESKTOP-JAKN2L5:~$ chmod 777 demo
b21030228@DESKTOP-JAKN2L5:~$ chmod
chmod: missing operand
Try 'chmod --help' for more information.
b21030228@DESKTOP-JAKN2L5:~$ chmod a-x demo
b21030228@DESKTOP-JAKN2L5:~$ ls -l
total 0
-rw-rw-rw- 1 b21030228 student 0 Dec 28 16:11 demo
-rw-r--r-- 1 b21030228 student 0 Dec 28 16:09 俞跃.txt
b21030228@DESKTOP-JAKN2L5:~$ chmod go-w demo
b21030228@DESKTOP-JAKN2L5:~$ ls -l
total 0
-rw-r--r-- 1 b21030228 student 0 Dec 28 16:11 demo
-rw-r--r-- 1 b21030228 student 0 Dec 28 16:09 俞跃.txt
b21030228@DESKTOP-JAKN2L5:~$ chmod g+w demo
b21030228@DESKTOP-JAKN2L5:~$ ls -l
total 0
-rw-rw-r-- 1 b21030228 student 0 Dec 28 16:11 demo
-rw-r--r-- 1 b21030228 student 0 Dec 28 16:09 俞跃.txt
b21030228@DESKTOP-JAKN2L5:~$ chmod a= demo
b21030228@DESKTOP-JAKN2L5:~$ ls -l
total 0
---------- 1 b21030228 student 0 Dec 28 16:11 demo
-rw-r--r-- 1 b21030228 student 0 Dec 28 16:09 俞跃.txt
b21030228@DESKTOP-JAKN2L5:~$ chmod +t demo
b21030228@DESKTOP-JAKN2L5:~$ ls -l
total 0
---------T 1 b21030228 student 0 Dec 28 16:11 demo
-rw-r--r-- 1 b21030228 student 0 Dec 28 16:09 俞跃.txt
b21030228@DESKTOP-JAKN2L5:~$ chmod u+s demo
b21030228@DESKTOP-JAKN2L5:~$ ls -l
total 0
---S-----T 1 b21030228 student 0 Dec 28 16:11 demo
-rw-r--r-- 1 b21030228 student 0 Dec 28 16:09 俞跃.txt
b21030228@DESKTOP-JAKN2L5:~$ chmod u+rx demo
b21030228@DESKTOP-JAKN2L5:~$ ls -l
total 0
-r-s-----T 1 b21030228 student 0 Dec 28 16:11 demo
-rw-r--r-- 1 b21030228 student 0 Dec 28 16:09 俞跃.txt
b21030228@DESKTOP-JAKN2L5:~$ chmod g+rws demo
b21030228@DESKTOP-JAKN2L5:~$ ls -l
total 0
-r-srwS--T 1 b21030228 student 0 Dec 28 16:11 demo
-rw-r--r-- 1 b21030228 student 0 Dec 28 16:09 俞跃.txt
```

```
b21030228@DESKTOP-JAKN2L5:~$ mkdir others
b21030228@DESKTOP-JAKN2L5:~$ cd others/
b21030228@DESKTOP-JAKN2L5:~/others$ touch 1.txt
b21030228@DESKTOP-JAKN2L5:~/others$ touch 2.txt
b21030228@DESKTOP-JAKN2L5:~/others$ cd ..
b21030228@DESKTOP-JAKN2L5:~$ tar -czvf backup.tar.gz others
others/
others/2.txt
others/1.txt
b21030228@DESKTOP-JAKN2L5:~$ ls -l
total 8
-rw-r--r-- 1 b21030228 student  164 Dec 28 16:17 backup.tar.gz
-r-srwS--T 1 b21030228 student    0 Dec 28 16:11 demo
drwxr-xr-x 2 b21030228 student 4096 Dec 28 16:16 others
-rw-r--r-- 1 b21030228 student    0 Dec 28 16:09 俞跃.txt
b21030228@DESKTOP-JAKN2L5:~$ tar -xzvf backup.tar.gz
others/
others/2.txt
others/1.txt
b21030228@DESKTOP-JAKN2L5:~$ ls -l
total 8
-rw-r--r-- 1 b21030228 student  164 Dec 28 16:17 backup.tar.gz
-r-srwS--T 1 b21030228 student    0 Dec 28 16:11 demo
drwxr-xr-x 2 b21030228 student 4096 Dec 28 16:16 others
-rw-r--r-- 1 b21030228 student    0 Dec 28 16:09 俞跃.txt
```

```
b21030228@DESKTOP-JAKN2L5:~$ mv testfile textfile
b21030228@DESKTOP-JAKN2L5:~$ grep '^n' textfile
no, I study in njupt.
b21030228@DESKTOP-JAKN2L5:~$ grep '\.00$' textfile
this line ends with .00
He is 15. It is 16.00
b21030228@DESKTOP-JAKN2L5:~$ grep '5\..' textfile
He is 15. It is 16.00
b21030228@DESKTOP-JAKN2L5:~$ grep '^[wy]'textfile


^C
b21030228@DESKTOP-JAKN2L5:~$ grep '^[wy]' textfile
b21030228@DESKTOP-JAKN2L5:~$ vim textfile
b21030228@DESKTOP-JAKN2L5:~$ grep '^[wy]' textfile
wy is the short of my name.
```