

(1) Directory Operation

```
zxx-king@zxx-king-Legion-Y7000P-IRX9: ~/B20060617
zxx-king@zxx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux$ pwd
/home/zxx-king/Curriculum/Linux
zxx-king@zxx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux$ cd ~
zxx-king@zxx-king-Legion-Y7000P-IRX9:~$ mkdir B20060617
zxx-king@zxx-king-Legion-Y7000P-IRX9:~$ cd B20060617
zxx-king@zxx-king-Legion-Y7000P-IRX9:~/B20060617$ mkdir sby
zxx-king@zxx-king-Legion-Y7000P-IRX9:~/B20060617$ ls
sby
zxx-king@zxx-king-Legion-Y7000P-IRX9:~/B20060617$ rmdir sby
zxx-king@zxx-king-Legion-Y7000P-IRX9:~/B20060617$ ls
zxx-king@zxx-king-Legion-Y7000P-IRX9:~/B20060617$
```

(2) File operation

```
zxx-king@zxx-king-Legion-Y7000P-IRX9:~/B20060617$ cd ~
zxx-king@zxx-king-Legion-Y7000P-IRX9:~$ touch sby.txt
zxx-king@zxx-king-Legion-Y7000P-IRX9:~$ ls
B20060617  Desktop  Downloads  Music  Public  snap  Videos
Curriculum Documents miniconda3 Pictures sby.txt Templates
zxx-king@zxx-king-Legion-Y7000P-IRX9:~$ echo "hello world">sby.txt
zxx-king@zxx-king-Legion-Y7000P-IRX9:~$ cat sby.txt
hello world
zxx-king@zxx-king-Legion-Y7000P-IRX9:~$ cp sby.txt sby2.txt
zxx-king@zxx-king-Legion-Y7000P-IRX9:~$ mv sby.txt B20060617.txt
zxx-king@zxx-king-Legion-Y7000P-IRX9:~$ ls
B20060617 Desktop miniconda3 Public Templates
B20060617.txt Documents Music sby2.txt Videos
Curriculum Downloads Pictures snap
zxx-king@zxx-king-Legion-Y7000P-IRX9:~$
```

(3) User Management

```
zxx-king@zxx-king-Legion-Y7000P-IRX9:~$ whoami
zxx-king
zxx-king@zxx-king-Legion-Y7000P-IRX9:~$ sudo su root
[sudo] password for zxx-king:
root@zxx-king-Legion-Y7000P-IRX9:/home/zxx-king# groupadd student
root@zxx-king-Legion-Y7000P-IRX9:/home/zxx-king# whoami
root
root@zxx-king-Legion-Y7000P-IRX9:/home/zxx-king# adduser B20060617
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@zxx-king-Legion-Y7000P-IRX9:/home/zxx-king# adduser b20060617
info: Adding user `b20060617' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `b20060617' (1002) ...
info: Adding new user `b20060617' (1002) with group `b20060617 (1002)' ...
info: Creating home directory `/home/b20060617' ...
info: Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for b20060617
Enter the new value, or press ENTER for the default
    Full Name []: B20060617
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
info: Adding new user `b20060617' to supplemental / extra groups `users' ...
info: Adding user `b20060617' to group `users' ...
root@zxx-king-Legion-Y7000P-IRX9:/home/zxx-king# usermod -g student b20060617
root@zxx-king-Legion-Y7000P-IRX9:/home/zxx-king# su b20060617
b20060617@zxx-king-Legion-Y7000P-IRX9:/home/zxx-king$ cd ~
b20060617@zxx-king-Legion-Y7000P-IRX9:~$ touch sby.txt
b20060617@zxx-king-Legion-Y7000P-IRX9:~$ ls
sby.txt  模板
b20060617@zxx-king-Legion-Y7000P-IRX9:~$ ls -l
total 0
-rw-r--r-- 1 b20060617 student  0 Dec  9 10:34 sby.txt
drwxr-xr-x 1 b20060617 student 216 Dec  9 10:32 模板
b20060617@zxx-king-Legion-Y7000P-IRX9:~$
```

(4) Permission management

```
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$ touch demo
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$ chmod 777 demo
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$ ls -l
total 0
-rwxrwxrwx 1 zzx-king zzx-king 0 Dec  9 10:39 demo
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$ chmod a-x demo
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$ ls -l
total 0
-rw-rw-rw- 1 zzx-king zzx-king 0 Dec  9 10:39 demo
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$ chmod go-w demo
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$ ls -l
total 0
-rw-r--r-- 1 zzx-king zzx-king 0 Dec  9 10:39 demo
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$ chmod g+w demo
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$ ls -l
total 0
-rw-rw-r-- 1 zzx-king zzx-king 0 Dec  9 10:39 demo
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$ chmod a= demo
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$ ls -l
total 0
-----T 1 zzx-king zzx-king 0 Dec  9 10:39 demo
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$ chmod +t demo
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$ ls -l
total 0
-----T 1 zzx-king zzx-king 0 Dec  9 10:39 demo
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$ chmod u+s demo
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$ ls -l
total 0
---S-----T 1 zzx-king zzx-king 0 Dec  9 10:39 demo
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$ chmod u+rx demo
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$ ls -l
total 0
-r-s-----T 1 zzx-king zzx-king 0 Dec  9 10:39 demo
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$ chmod g+rws demo
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$ ls -l
total 0
-r-srws--T 1 zzx-king zzx-king 0 Dec  9 10:39 demo
zzx-king@zzx-king-Legion-Y7000P-IRX9:~/Curriculum/Linux/test$
```


(5) Other management

```
zzx-king@zzx-king-Legion-Y7000P-IRX9:~$ tar -czcf backup.tar.gz others
zzx-king@zzx-king-Legion-Y7000P-IRX9:~$ ls
backup.tar.gz Desktop Downloads Music Pictures snap Videos
Curriculum Documents miniconda3 others Public Templates
zzx-king@zzx-king-Legion-Y7000P-IRX9:~$ ls -l
total 4
-rw-rw-r-- 1 zzx-king zzx-king 163 Dec  9 10:45 backup.tar.gz
drwxrwxr-x 1 zzx-king zzx-king 20 Dec  9 10:18 Curriculum
drwxr-xr-x 1 zzx-king zzx-king 40 Dec  9 10:22 Desktop
drwxr-xr-x 1 zzx-king zzx-king 46 Dec  9 10:20 Documents
drwxr-xr-x 1 zzx-king zzx-king 390 Nov 18 17:32 Downloads
drwxrwxr-x 1 zzx-king zzx-king 330 Oct 28 13:00 miniconda3
drwxr-xr-x 1 zzx-king zzx-king  0 Oct 28 12:00 Music
drwxrwxr-x 1 zzx-king zzx-king 20 Dec  9 10:44 others
drwxr-xr-x 1 zzx-king zzx-king 22 Nov 18 13:05 Pictures
drwxr-xr-x 1 zzx-king zzx-king  0 Oct 28 12:00 Public
drwx----- 1 zzx-king zzx-king 160 Nov 12 17:07 snap
drwxr-xr-x 1 zzx-king zzx-king 216 Oct 30 11:21 Templates
drwxr-xr-x 1 zzx-king zzx-king  0 Oct 28 12:00 Videos
zzx-king@zzx-king-Legion-Y7000P-IRX9:~$ tar -xvzf backup.tar.gz
others/
others/1.txt
others/2.txt
zzx-king@zzx-king-Legion-Y7000P-IRX9:~$ ls -l
total 4
-rw-rw-r-- 1 zzx-king zzx-king 163 Dec  9 10:45 backup.tar.gz
drwxrwxr-x 1 zzx-king zzx-king 20 Dec  9 10:18 Curriculum
drwxr-xr-x 1 zzx-king zzx-king 40 Dec  9 10:22 Desktop
drwxr-xr-x 1 zzx-king zzx-king 46 Dec  9 10:20 Documents
drwxr-xr-x 1 zzx-king zzx-king 390 Nov 18 17:32 Downloads
drwxrwxr-x 1 zzx-king zzx-king 330 Oct 28 13:00 miniconda3
drwxr-xr-x 1 zzx-king zzx-king  0 Oct 28 12:00 Music
drwxrwxr-x 1 zzx-king zzx-king 20 Dec  9 10:44 others
drwxr-xr-x 1 zzx-king zzx-king 22 Nov 18 13:05 Pictures
drwxr-xr-x 1 zzx-king zzx-king  0 Oct 28 12:00 Public
drwx----- 1 zzx-king zzx-king 160 Nov 12 17:07 snap
drwxr-xr-x 1 zzx-king zzx-king 216 Oct 30 11:21 Templates
drwxr-xr-x 1 zzx-king zzx-king  0 Oct 28 12:00 Videos
zzx-king@zzx-king-Legion-Y7000P-IRX9:~$ touch sby.txt
zzx-king@zzx-king-Legion-Y7000P-IRX9:~$ cat sby.txt
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.
zzx-king@zzx-king-Legion-Y7000P-IRX9:~$ grep '^n' sby
grep: sby: No such file or directory
zzx-king@zzx-king-Legion-Y7000P-IRX9:~$ grep '^n' sby.txt
no, I study in njupt.
zzx-king@zzx-king-Legion-Y7000P-IRX9:~$ grep '\.00$' sby.txt
this line ends with .00
He is 15. It is 16.00
zzx-king@zzx-king-Legion-Y7000P-IRX9:~$ grep '5\..' sby.txt
He is 15. It is 16.00
zzx-king@zzx-king-Legion-Y7000P-IRX9:~$ grep '^[wy]' sby.txt
wy is the short of my name.
```