

1-3-(1)

```
yukun@ubuntu: ~/q23010325
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

yukun@ubuntu:~$ pwd
/home/yukun
yukun@ubuntu:~$ cd ~
yukun@ubuntu:~$ mkdir q23010325
mkdir: cannot create directory 'q23010325': File exists
yukun@ubuntu:~$ rmdir q23010325
yukun@ubuntu:~$ mkdir q23010325
yukun@ubuntu:~$ cd q23010325
yukun@ubuntu:~/q23010325$ mkdir Zhengyukun
yukun@ubuntu:~/q23010325$ ls
Zhengyukun
yukun@ubuntu:~/q23010325$ rmdir Zhengyukun
yukun@ubuntu:~/q23010325$ ls
yukun@ubuntu:~/q23010325$
```

1-3-(2)

```
yukun@ubuntu: ~
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

yukun@ubuntu:~$ cd ~
yukun@ubuntu:~$ touch Zyukun.txt
yukun@ubuntu:~$ ls
Desktop  Downloads  Pictures  q23010325  Templates  Zyukun.txt
Documents Music      Public    snap       Videos
yukun@ubuntu:~$ echo "hello world" > Zyukun.txt
yukun@ubuntu:~$ cat Zyukun.txt
hello world
yukun@ubuntu:~$ cp Zyukun.txt Zyukun2.txt
yukun@ubuntu:~$ mv Zyukun.txt q23010325.txt
yukun@ubuntu:~$ ls
Desktop  Downloads  Pictures  q23010325  snap  Videos
Documents Music      Public    q23010325.txt  Templates  Zyukun2.txt
yukun@ubuntu:~$ echo "q23010325 Zhengyukun"
q23010325 Zhengyukun
yukun@ubuntu:~$
```

1-3-(3)

```
q23010325@ubuntu: ~  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
yukun@ubuntu:~$ whoami  
yukun  
yukun@ubuntu:~$ sudo su root  
[sudo] password for yukun:  
root@ubuntu:/home/yukun#  
root@ubuntu:/home/yukun#  
root@ubuntu:/home/yukun# groupadd student  
root@ubuntu:/home/yukun# whoami  
root  
root@ubuntu:/home/yukun# adduser q23010325  
Adding user `q23010325' ...  
Adding new group `q23010325' (1002) ...  
Adding new user `q23010325' (1001) with group `q23010325' ...  
Creating home directory `/home/q23010325' ...  
Copying files from `/etc/skel' ...  
New password:  
Retype new password:  
passwd: password updated successfully  
Changing the user information for q23010325  
Enter the new value, or press ENTER for the default  
Full Name []:  
Copying files from `/etc/skel' ...  
New password:  
Retype new password:  
passwd: password updated successfully  
Changing the user information for q23010325  
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@ubuntu:/home/yukun# usermod -g student q23010325  
root@ubuntu:/home/yukun# su q23010325  
q23010325@ubuntu:/home/yukun$ cd ~  
q23010325@ubuntu:~$ touch Zhengyukun.txt  
q23010325@ubuntu:~$ ls -l  
total 0  
-rw-r--r-- 1 q23010325 student 0 Nov 20 19:01 Zhengyukun.txt  
q23010325@ubuntu:~$
```

1-3-(4)

```
yukun@ubuntu: ~  
yukun@ubuntu:~$ touch demo  
yukun@ubuntu:~$ ls -l demo  
-rw-rw-r-- 1 yukun yukun 0 Nov 21 20:25 demo  
yukun@ubuntu:~$ chmod 777 demo  
yukun@ubuntu:~$ ls -l demo  
-rwxrwxrwx 1 yukun yukun 0 Nov 21 20:25 demo  
yukun@ubuntu:~$ chmod a-x demo  
yukun@ubuntu:~$ ls -l demo  
-rw-rw-rw- 1 yukun yukun 0 Nov 21 20:25 demo  
yukun@ubuntu:~$ chmod go-w demo  
yukun@ubuntu:~$ ls -l demo  
-rw-r--r-- 1 yukun yukun 0 Nov 21 20:25 demo  
yukun@ubuntu:~$ chmod go+w demo  
yukun@ubuntu:~$ ls -l demo  
-rw-rw-rw- 1 yukun yukun 0 Nov 21 20:25 demo  
yukun@ubuntu:~$ chmod a= demo  
yukun@ubuntu:~$ ls -l demo  
-----T 1 yukun yukun 0 Nov 21 20:25 demo  
yukun@ubuntu:~$ chmod +t demo  
yukun@ubuntu:~$ ls -l demo  
-----T 1 yukun yukun 0 Nov 21 20:25 demo  
yukun@ubuntu:~$ chmod u+s demo  
yukun@ubuntu:~$ ls -l demo  
---S-----T 1 yukun yukun 0 Nov 21 20:25 demo  
yukun@ubuntu:~$ chmod u+rx demo  
yukun@ubuntu:~$ ls -l demo  
-r-s-----T 1 yukun yukun 0 Nov 21 20:25 demo  
yukun@ubuntu:~$ chmod g+rws demo  
yukun@ubuntu:~$ ls -l demo  
-r-srws--T 1 yukun yukun 0 Nov 21 20:25 demo  
yukun@ubuntu:~$
```

```
yukun@ubuntu:~/others$ cd ~  
yukun@ubuntu:~$ tar -czvf backup.tar.gz others  
others/  
others/yfile2.txt  
others/backup.tar.gz  
others/zfile1.txt  
yukun@ubuntu:~$ ls -l  
total 56  
-rw-rw-r-- 1 yukun yukun 259 Dec  4 18:19 backup.tar.gz  
-r-srws--T 1 yukun yukun  0 Nov 21 20:25 demo  
drwxr-xr-x 2 yukun yukun 4096 Nov 20 07:24 Desktop  
drwxr-xr-x 2 yukun yukun 4096 Nov 20 07:24 Documents  
drwxr-xr-x 2 yukun yukun 4096 Nov 20 07:24 Downloads  
drwxr-xr-x 2 yukun yukun 4096 Nov 20 07:24 Music  
drwxrwxr-x 2 yukun yukun 4096 Dec  4 18:15 others  
drwxr-xr-x 2 yukun yukun 4096 Nov 20 07:24 Pictures  
drwxr-xr-x 2 yukun yukun 4096 Nov 20 07:24 Public  
drwxrwxr-x 2 yukun yukun 4096 Nov 20 18:30 q23010325  
-rw-rw-r-- 1 yukun yukun  12 Nov 20 18:38 q23010325.txt  
drwx----- 3 yukun yukun 4096 Nov 20 07:26 snap  
drwxr-xr-x 2 yukun yukun 4096 Nov 20 07:24 Templates  
drwxr-xr-x 2 yukun yukun 4096 Nov 20 07:24 Videos  
-rw-rw-r-- 1 yukun yukun  12 Nov 20 18:39 Zyukun2.txt
```



```

yukun@ubuntu:~$ tar -xzf backup.tar.gz
others/
others/yfile2.txt
others/backup.tar.gz
others/zfile1.txt
yukun@ubuntu:~$ ls -l
total 56
-rw-rw-r-- 1 yukun yukun 259 Dec  4 18:19 backup.tar.gz
-r-srws--T 1 yukun yukun   0 Nov 21 20:25 demo
drwxr-xr-x 2 yukun yukun 4096 Nov 20 07:24 Desktop
drwxr-xr-x 2 yukun yukun 4096 Nov 20 07:24 Documents
drwxr-xr-x 2 yukun yukun 4096 Nov 20 07:24 Downloads
drwxr-xr-x 2 yukun yukun 4096 Nov 20 07:24 Music
drwxrwxr-x 2 yukun yukun 4096 Dec  4 18:15 others
drwxr-xr-x 2 yukun yukun 4096 Nov 20 07:24 Pictures
drwxr-xr-x 2 yukun yukun 4096 Nov 20 07:24 Public
drwxrwxr-x 2 yukun yukun 4096 Nov 20 18:30 q23010325
-rw-rw-r-- 1 yukun yukun  12 Nov 20 18:38 q23010325.txt
drwx----- 3 yukun yukun 4096 Nov 20 07:26 snap
drwxr-xr-x 2 yukun yukun 4096 Nov 20 07:24 Templates
drwxr-xr-x 2 yukun yukun 4096 Nov 20 07:24 Videos
-rw-rw-r-- 1 yukun yukun  12 Nov 20 18:39 Zyukun2.txt
yukun@ubuntu:~$ █

```

```

-rw-rw-r-- 1 yukun yukun  12 Nov 20 18:39 Zyukun2.txt
yukun@ubuntu:~$ cat > textfile << 'EOF'
> no, I stduy 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.
> EOF
yukun@ubuntu:~$ grep '^n' textfile
no, I stduy in njupt.
yukun@ubuntu:~$ grep '\.00$' textfile
this line ends with .00
He is 15. It is 16.00
yukun@ubuntu:~$ grep '5\.. ' textfile
He is 15. It is 16.00
yukun@ubuntu:~$ grep '^[wy]' textfile
wy is the short of my name.
yukun@ubuntu:~$ █

```