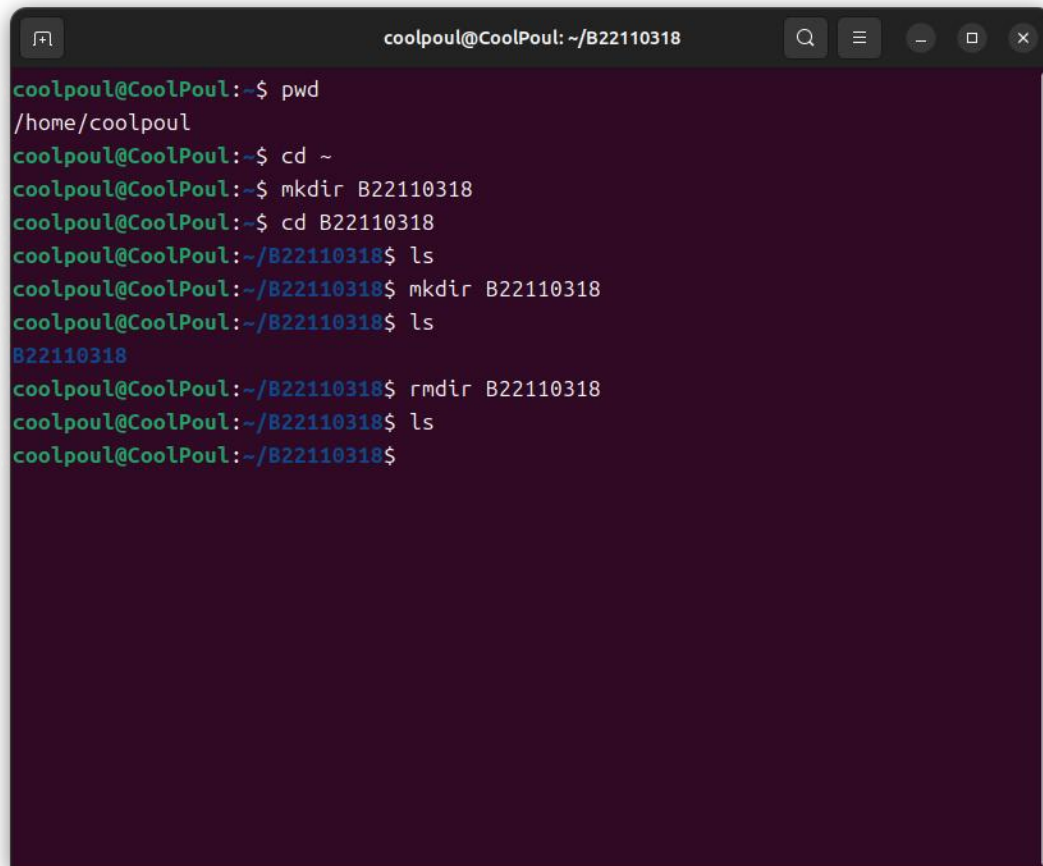


## (1) Directory Operation

A terminal window with a dark purple background and light green text. The window title bar shows 'coolpoul@CoolPoul: ~/B22110318'. The terminal displays a series of commands and their outputs for directory operations. The commands include 'pwd', 'cd ~', 'mkdir B22110318', 'cd B22110318', 'ls', 'mkdir B22110318', 'ls', 'rmkdir B22110318', and 'ls'. The output shows the current directory path and the creation of a new directory within the current one.

```
coolpoul@CoolPoul:~$ pwd
/home/coolpoul
coolpoul@CoolPoul:~$ cd ~
coolpoul@CoolPoul:~$ mkdir B22110318
coolpoul@CoolPoul:~$ cd B22110318
coolpoul@CoolPoul:~/B22110318$ ls
coolpoul@CoolPoul:~/B22110318$ mkdir B22110318
coolpoul@CoolPoul:~/B22110318$ ls
B22110318
coolpoul@CoolPoul:~/B22110318$ rmkdir B22110318
coolpoul@CoolPoul:~/B22110318$ ls
coolpoul@CoolPoul:~/B22110318$
```

## (2) File operation

```
coolpoul@CoolPoul: ~  
coolpoul@CoolPoul:~$ cd ~  
coolpoul@CoolPoul:~$ touch yms.txt  
coolpoul@CoolPoul:~$ ls  
公共 视频 文档 音乐 B22110318 problem1 problem2 problem3 snap  
模板 图片 下载 桌面 lab3 problem1.c problem2.c problem3.c yms.txt  
coolpoul@CoolPoul:~$ echo "hello world" > yms.txt  
coolpoul@CoolPoul:~$ cat yms.txt  
hello world  
coolpoul@CoolPoul:~$ cp yms.txt yms2.txt  
coolpoul@CoolPoul:~$ mv yms.txt B22110318.txt  
coolpoul@CoolPoul:~$ ls  
公共 图片 音乐 B22110318.txt problem1.c problem3 yms2.txt  
模板 文档 桌面 lab3 problem2 problem3.c  
视频 下载 B22110318 problem1 problem2.c snap  
coolpoul@CoolPoul:~$
```

### (3) User Management

```
b22110318@CoolPoul: ~  
coolpoul@CoolPoul:~$ whoami  
coolpoul  
coolpoul@CoolPoul:~$ sudo su root  
[sudo] coolpoul 的密码:  
root@CoolPoul:/home/coolpoul# groupadd student  
root@CoolPoul:/home/coolpoul# whoami  
root  
root@CoolPoul:/home/coolpoul# adduser b22110318  
info: 正在添加用户 "b22110318"...  
info: 从 1000 到 59999 中选择 UID/GID...  
info: 正在添加新组 "b22110318" (1002)...  
info: 正在添加新用户 "b22110318" (1002) 到组 "b22110318 (1002)"...  
warn: 主目录 "/home/b22110318" 已经存在。没有修改此目录。  
新的密码:  
重新输入新的密码:  
passwd: 已成功更新密码  
正在改变 b22110318 的用户信息  
请输入新值, 或直接敲回车键以使用默认值  
    全名 []:  
    房间号码 []:  
    工作电话 []:  
    家庭电话 []:  
    其它 []:  
这些信息是否正确? [Y/n]  
info: 正在添加新用户 "b22110318" 到附加组 "users" ...  
info: 正在添加用户 "b22110318" 到 "users" 组...  
root@CoolPoul:/home/coolpoul# usermod -g student b22110318  
root@CoolPoul:/home/coolpoul# su b22110318  
b22110318@CoolPoul:/home/coolpoul$ cd ~  
b22110318@CoolPoul:~$ touch b22110318.txt  
b22110318@CoolPoul:~$ ls -l  
总计 0  
-rw-r--r-- 1 b22110318 student 0 12月  8 22:40 b22110318.txt  
b22110318@CoolPoul:~$
```

#### (4) Permission management

```
coolpoul@CoolPoul: ~  
coolpoul@CoolPoul:~$ touch demo  
coolpoul@CoolPoul:~$ chmod 777 demo  
coolpoul@CoolPoul:~$ chmod a-x demo  
coolpoul@CoolPoul:~$ chmod go-w demo  
coolpoul@CoolPoul:~$ chmod g+x demo  
coolpoul@CoolPoul:~$ chmod a= demo  
coolpoul@CoolPoul:~$ chmod +t demo  
coolpoul@CoolPoul:~$ chmod u+s demo  
coolpoul@CoolPoul:~$ chmod u+rx demo  
coolpoul@CoolPoul:~$ chmod g+rws demo  
coolpoul@CoolPoul:~$ ls -l  
总计 112  
drwxr-xr-x 2 coolpoul coolpoul 4096 11月 23 00:10 公共  
drwxr-xr-x 2 coolpoul coolpoul 4096 11月 23 00:10 模板  
drwxr-xr-x 2 coolpoul coolpoul 4096 11月 23 00:10 视频  
drwxr-xr-x 3 coolpoul coolpoul 4096 11月 22 18:13 图片  
drwxr-xr-x 2 coolpoul coolpoul 4096 11月 23 00:10 文档  
drwxr-xr-x 2 coolpoul coolpoul 4096 12月 8 22:23 下载  
drwxr-xr-x 2 coolpoul coolpoul 4096 11月 23 00:10 音乐  
drwxr-xr-x 2 coolpoul coolpoul 4096 11月 23 00:10 桌面  
drwxrwxr-x 2 coolpoul coolpoul 4096 12月 8 22:26 B22110318  
-rw-rw-r-- 1 coolpoul coolpoul 12 12月 8 22:30 B22110318.txt  
-r-srws--T 1 coolpoul coolpoul 0 12月 8 22:41 demo  
drwxrwxr-x 2 coolpoul coolpoul 4096 12月 8 20:34 lab3  
-rwxrwxr-x 1 coolpoul coolpoul 16168 11月 22 18:18 problem1  
-rw-rw-r-- 1 coolpoul coolpoul 534 11月 22 18:18 problem1.c  
-rwxrwxr-x 1 coolpoul coolpoul 16376 11月 22 18:24 problem2  
-rw-rw-r-- 1 coolpoul coolpoul 1049 11月 22 18:21 problem2.c  
-rwxrwxr-x 1 coolpoul coolpoul 16352 11月 22 18:30 problem3  
-rw-rw-r-- 1 coolpoul coolpoul 715 11月 22 18:29 problem3.c  
drwx----- 7 coolpoul coolpoul 4096 12月 8 18:00 snap  
-rw-rw-r-- 1 coolpoul coolpoul 12 12月 8 22:30 yms2.txt  
coolpoul@CoolPoul:~$
```

## (5) Other management

```
coolpoul@CoolPoul: ~  
coolpoul@CoolPoul:~$ tar -czvf backup.tar.gz others  
others/  
others/backup.tar.gz  
others/1/  
others/2/  
coolpoul@CoolPoul:~$ ls -l  
总计 120  
drwxr-xr-x 2 coolpoul coolpoul 4096 11月 23 00:10 公共  
drwxr-xr-x 2 coolpoul coolpoul 4096 11月 23 00:10 模板  
drwxr-xr-x 2 coolpoul coolpoul 4096 11月 23 00:10 视频  
drwxr-xr-x 3 coolpoul coolpoul 4096 11月 22 18:13 图片  
drwxr-xr-x 2 coolpoul coolpoul 4096 11月 23 00:10 文档  
drwxr-xr-x 2 coolpoul coolpoul 4096 12月 8 22:23 下载  
drwxr-xr-x 2 coolpoul coolpoul 4096 11月 23 00:10 音乐  
drwxr-xr-x 2 coolpoul coolpoul 4096 11月 23 00:10 桌面  
drwxrwxr-x 2 coolpoul coolpoul 4096 12月 8 22:26 B22110318  
-rw-rw-r-- 1 coolpoul coolpoul 12 12月 8 22:30 B22110318.txt  
-rw-rw-r-- 1 coolpoul coolpoul 248 12月 8 22:48 backup.tar.gz  
-r-srwS--T 1 coolpoul coolpoul 0 12月 8 22:41 demo  
drwxrwxr-x 2 coolpoul coolpoul 4096 12月 8 20:34 lab3  
drwxrwxr-x 4 coolpoul coolpoul 4096 12月 8 22:46 others  
-rwxrwxr-x 1 coolpoul coolpoul 16168 11月 22 18:18 problem1  
-rw-rw-r-- 1 coolpoul coolpoul 534 11月 22 18:18 problem1.c  
-rwxrwxr-x 1 coolpoul coolpoul 16376 11月 22 18:24 problem2  
-rw-rw-r-- 1 coolpoul coolpoul 1049 11月 22 18:21 problem2.c  
-rwxrwxr-x 1 coolpoul coolpoul 16352 11月 22 18:30 problem3  
-rw-rw-r-- 1 coolpoul coolpoul 715 11月 22 18:29 problem3.c  
drwx----- 7 coolpoul coolpoul 4096 12月 8 18:00 snap  
-rw-rw-r-- 1 coolpoul coolpoul 12 12月 8 22:30 yms2.txt  
coolpoul@CoolPoul:~$ tar -xzvf backup.tar.gz
```



```
coolpoul@CoolPoul: ~  
coolpoul@CoolPoul:~$ tar -xzvf backup.tar.gz  
others/  
others/backup.tar.gz  
others/1/  
others/2/  
coolpoul@CoolPoul:~$ ls -l  
总计 120  
drwxr-xr-x 2 coolpoul coolpoul 4096 11月 23 00:10 公共  
drwxr-xr-x 2 coolpoul coolpoul 4096 11月 23 00:10 模板  
drwxr-xr-x 2 coolpoul coolpoul 4096 11月 23 00:10 视频  
drwxr-xr-x 3 coolpoul coolpoul 4096 11月 22 18:13 图片  
drwxr-xr-x 2 coolpoul coolpoul 4096 11月 23 00:10 文档  
drwxr-xr-x 2 coolpoul coolpoul 4096 12月 8 22:23 下载  
drwxr-xr-x 2 coolpoul coolpoul 4096 11月 23 00:10 音乐  
drwxr-xr-x 2 coolpoul coolpoul 4096 11月 23 00:10 桌面  
drwxrwxr-x 2 coolpoul coolpoul 4096 12月 8 22:26 B22110318  
-rw-rw-r-- 1 coolpoul coolpoul 12 12月 8 22:30 B22110318.txt  
-rw-rw-r-- 1 coolpoul coolpoul 248 12月 8 22:48 backup.tar.gz  
-r-srwS--T 1 coolpoul coolpoul 0 12月 8 22:41 demo  
drwxrwxr-x 2 coolpoul coolpoul 4096 12月 8 20:34 lab3  
drwxrwxr-x 4 coolpoul coolpoul 4096 12月 8 22:46 others  
-rwxrwxr-x 1 coolpoul coolpoul 16168 11月 22 18:18 problem1  
-rw-rw-r-- 1 coolpoul coolpoul 534 11月 22 18:18 problem1.c  
-rwxrwxr-x 1 coolpoul coolpoul 16376 11月 22 18:24 problem2  
-rw-rw-r-- 1 coolpoul coolpoul 1049 11月 22 18:21 problem2.c  
-rwxrwxr-x 1 coolpoul coolpoul 16352 11月 22 18:30 problem3  
-rw-rw-r-- 1 coolpoul coolpoul 715 11月 22 18:29 problem3.c  
drwx----- 7 coolpoul coolpoul 4096 12月 8 18:00 snap  
-rw-rw-r-- 1 coolpoul coolpoul 12 12月 8 22:30 yms2.txt  
coolpoul@CoolPoul:~$
```

```
coolpoul@CoolPoul: ~  
coolpoul@CoolPoul:~$ touch 0318.txt  
coolpoul@CoolPoul:~$ grep '^n' 0318.txt  
no, I study in njupt.  
coolpoul@CoolPoul:~$ grep '\.00$' 0318.txt  
this line ends with .00  
He is 15. It is 16.00  
coolpoul@CoolPoul:~$ grep '5\.. ' 0318.txt  
He is 15. It is 16.00  
coolpoul@CoolPoul:~$ grep '^[wy]' 0318.txt  
wy is the short of my name.  
coolpoul@CoolPoul:~$
```