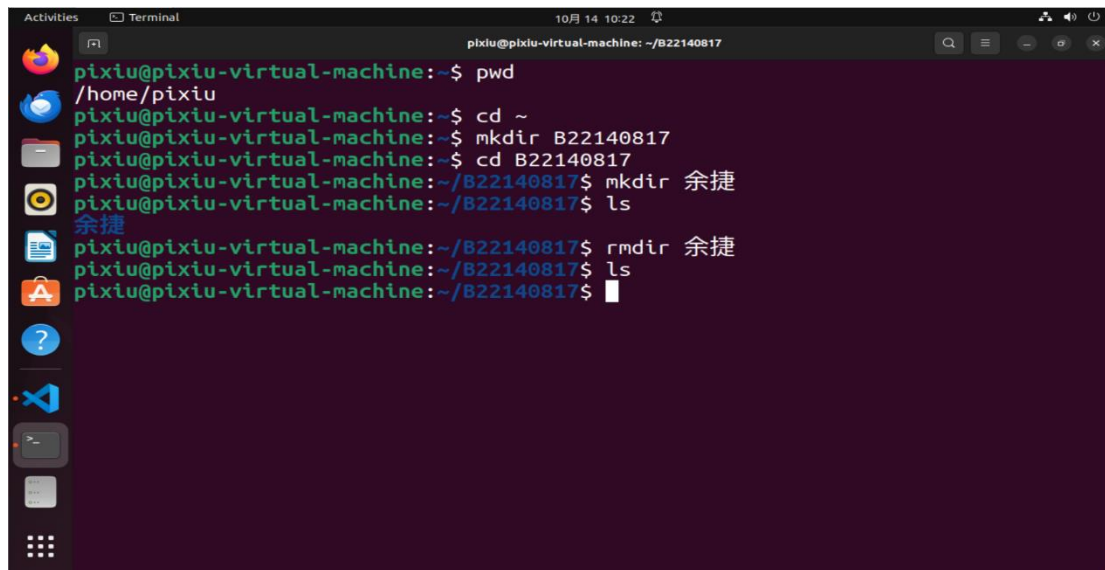


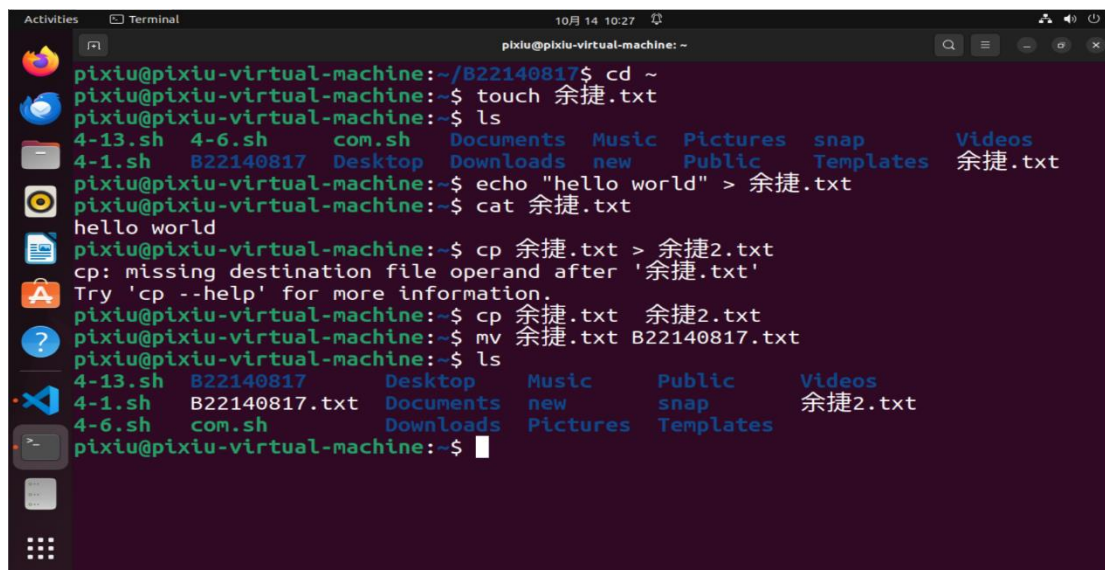
(1) Directory Operation



A terminal window titled 'pixiu@pixiu-virtual-machine: ~/B22140817' showing a series of directory operations. The user starts at the home directory, navigates to a subdirectory, creates a new directory named '余捷', lists its contents, and then removes it. The terminal output is as follows:

```
pixiu@pixiu-virtual-machine:~$ pwd
/home/pixiu
pixiu@pixiu-virtual-machine:~$ cd ~
pixiu@pixiu-virtual-machine:~$ mkdir B22140817
pixiu@pixiu-virtual-machine:~$ cd B22140817
pixiu@pixiu-virtual-machine:~/B22140817$ mkdir 余捷
pixiu@pixiu-virtual-machine:~/B22140817$ ls
余捷
pixiu@pixiu-virtual-machine:~/B22140817$ rmdir 余捷
pixiu@pixiu-virtual-machine:~/B22140817$ ls
pixiu@pixiu-virtual-machine:~/B22140817$
```

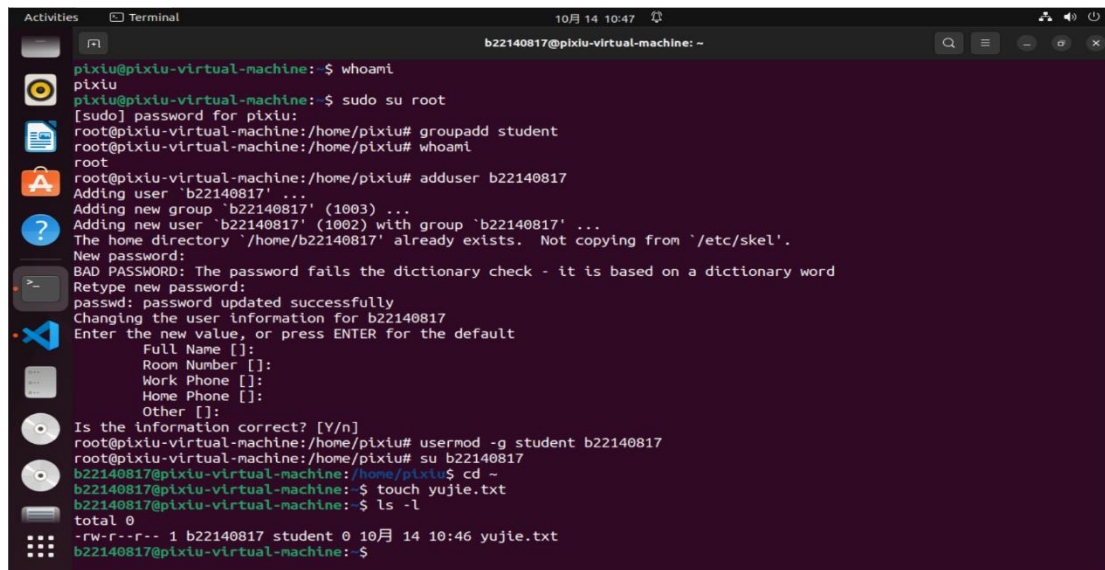
(2) File operation



A terminal window titled 'pixiu@pixiu-virtual-machine: ~' showing a series of file operations. The user creates a file named '余捷.txt', lists the directory contents, echoes 'hello world' into the file, and then attempts to copy it. The copy command fails due to a missing destination file operand. The user then successfully moves the file to a new location. The terminal output is as follows:

```
pixiu@pixiu-virtual-machine:~/B22140817$ cd ~
pixiu@pixiu-virtual-machine:~$ touch 余捷.txt
pixiu@pixiu-virtual-machine:~$ ls
4-13.sh 4-6.sh com.sh Documents Music Pictures snap Videos
4-1.sh B22140817 Desktop Downloads new Public Templates 余捷.txt
pixiu@pixiu-virtual-machine:~$ echo "hello world" > 余捷.txt
pixiu@pixiu-virtual-machine:~$ cat 余捷.txt
hello world
pixiu@pixiu-virtual-machine:~$ cp 余捷.txt > 余捷2.txt
cp: missing destination file operand after '余捷.txt'
Try 'cp --help' for more information.
pixiu@pixiu-virtual-machine:~$ cp 余捷.txt 余捷2.txt
pixiu@pixiu-virtual-machine:~$ mv 余捷.txt B22140817.txt
pixiu@pixiu-virtual-machine:~$ ls
4-13.sh B22140817 Desktop Music Public Videos
4-1.sh B22140817.txt Documents new snap 余捷2.txt
4-6.sh com.sh Downloads Pictures Templates
pixiu@pixiu-virtual-machine:~$
```

(3) User Management



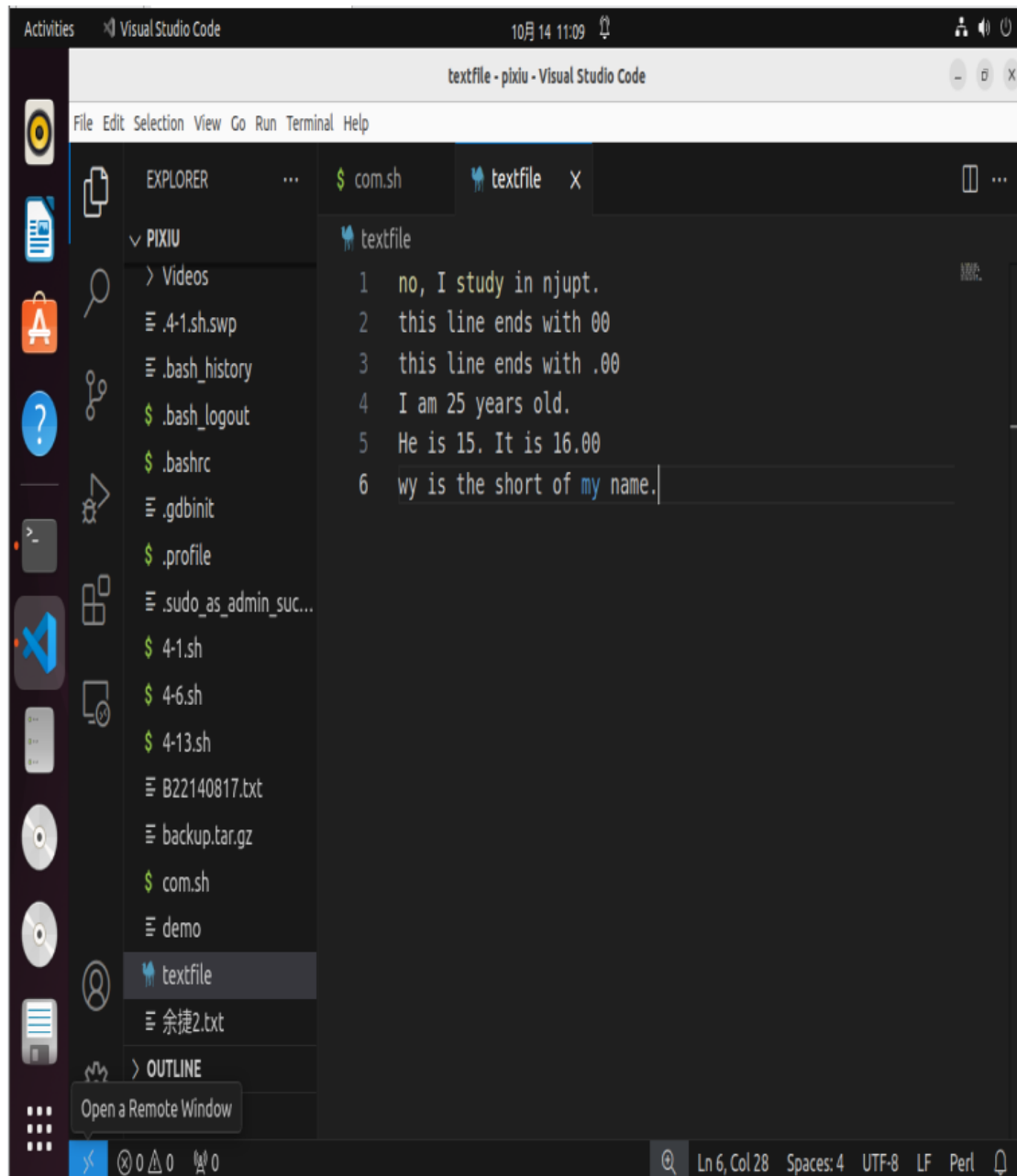
A terminal window titled 'Terminal' with a dark background and light text. The window shows a series of commands and their outputs in a Linux environment. The user 'pixiu' is initially at the prompt. They run 'whoami' and 'sudo su root' to become root. Then, they run 'groupadd student' to create a new group. Next, they run 'adduser b22140817', which prompts for a password, fails a dictionary check, and then succeeds after a second attempt. They then run 'usermod -g student b22140817' to assign the user to the 'student' group. Finally, they run 'su b22140817' to switch to the new user, create a file 'yujie.txt' with 'touch', and list files with 'ls -l', showing the file permissions as '-rw-r--r--'.

```
pixiu@pixiu-virtual-machine:~$ whoami
pixiu
pixiu@pixiu-virtual-machine:~$ sudo su root
[sudo] password for pixiu:
root@pixiu-virtual-machine:/home/pixiu# groupadd student
root@pixiu-virtual-machine:/home/pixiu# whoami
root
root@pixiu-virtual-machine:/home/pixiu# adduser b22140817
Adding user 'b22140817' ...
Adding new group 'b22140817' (1003) ...
Adding new user 'b22140817' (1002) with group 'b22140817' ...
The home directory '/home/b22140817' already exists. Not copying from '/etc/skel'.
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
passwd: password updated successfully
Changing the user information for b22140817
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]
root@pixiu-virtual-machine:/home/pixiu# usermod -g student b22140817
root@pixiu-virtual-machine:/home/pixiu# su b22140817
b22140817@pixiu-virtual-machine:/home/pixiu$ cd ~
b22140817@pixiu-virtual-machine:~$ touch yujie.txt
b22140817@pixiu-virtual-machine:~$ ls -l
total 0
-rw-r--r-- 1 b22140817 student 0 10月 14 10:46 yujie.txt
b22140817@pixiu-virtual-machine:~$
```

(4) Permission management

[illegible]

(5) Other management



```
Activities Terminal 10月 14 11:11
pixiu@pixiu-virtual-machine: ~
pixiu@pixiu-virtual-machine:~$ grep '^n' textfile
grep: textfile: No such file or directory
pixiu@pixiu-virtual-machine:~$ grep '^n' textfile
no, I study in njupt.
pixiu@pixiu-virtual-machine:~$ grep '\.00$' textfile
this line ends with .00
? He is 15. It is 16.00
pixiu@pixiu-virtual-machine:~$ grep '5\..' textfile
He is 15. It is 16.00
pixiu@pixiu-virtual-machine:~$ grep '^[wy]' textfile
wy is the short of my name.
pixiu@pixiu-virtual-machine:~$
```