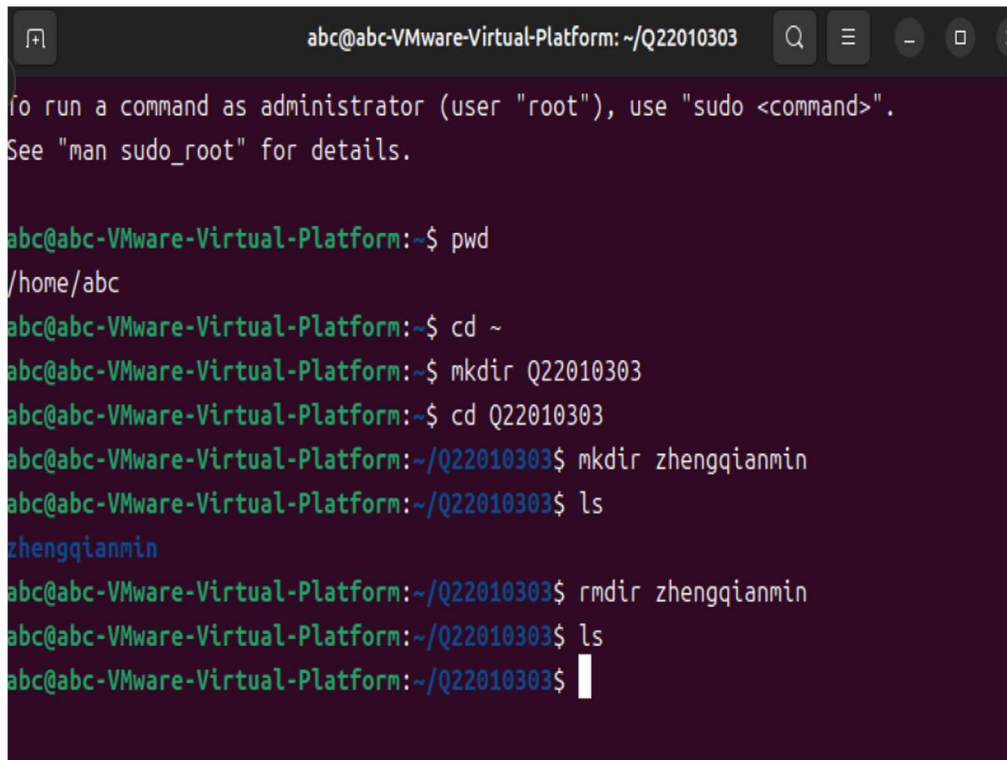# 1. Objective

Get familiar with the Linux operating system environment through experiments and master the use of basic Linux commands.

2. Requirement

Master the permission management of Linux files Master basic file and directory operations Linux user management File compression and archiving

3. Experiment Step

(1) Directory Operation

(2) File operation

(3)User Management

(4) Permission management

```
q22010303@abc-VMware-Virtual-Platform:~$ chmod g+w demo
q22010303@abc-VMware-Virtual-Platform:~$ ls -l demo

-rw-rw-r-- 1 q22010303 student 0 10月 14 10:08 demo
q22010303@abc-VMware-Virtual-Platform:~$ chmod a= demo
q22010303@abc-VMware-Virtual-Platform:~$ ls -l demo

---------- 1 q22010303 student 0 10月 14 10:08 demo
q22010303@abc-VMware-Virtual-Platform:~$ chmod +t demo
q22010303@abc-VMware-Virtual-Platform:~$ ls -l demo

---------T 1 q22010303 student 0 10月 14 10:08 demo
q22010303@abc-VMware-Virtual-Platform:~$ chmod u+s demo
q22010303@abc-VMware-Virtual-Platform:~$ ls -l demo

---S-----T 1 q22010303 student 0 10月 14 10:08 demo
q22010303@abc-VMware-Virtual-Platform:~$ chmod u+rx demo
q22010303@abc-VMware-Virtual-Platform:~$ ls -l demo

-r-s-----T 1 q22010303 student 0 10月 14 10:08 demo
q22010303@abc-VMware-Virtual-Platform:~$ chmod g+rws demo
q22010303@abc-VMware-Virtual-Platform:~$ ls -l demo

-r-srwS--T 1 q22010303 student 0 10月 14 10:08 demo
q22010303@abc-VMware-Virtual-Platform:~$
```
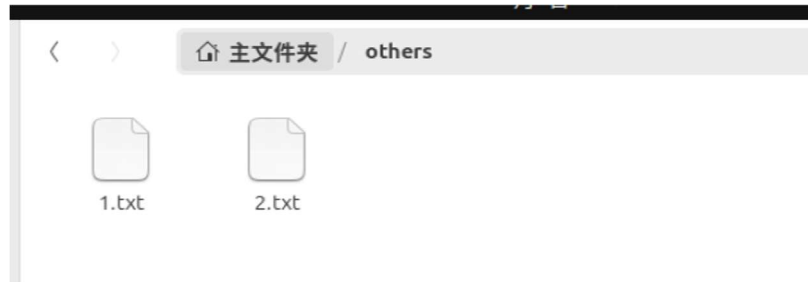
(5) Other management

Create folder "others" in the main directory of the user, go to the folder, and create two files with the name of any file. Then run the following commands in sequence.

Search the textfile

```
abc@abc-VMware-Virtual-Platform:~$ grep '^n' 1.txt
no,I study in njupt.
abc@abc-VMware-Virtual-Platform:~$ grep '\.00' 1.txt
this line ends with .00
He is 15. It is 16.00
abc@abc-VMware-Virtual-Platform:~$ grep '\.00$' 1.txt
this line ends with .00
He is 15. It is 16.00
abc@abc-VMware-Virtual-Platform:~$ grep '5\..$' 1.txt
abc@abc-VMware-Virtual-Platform:~$ grep '5\..' 1.txt
He is 15. It is 16.00
abc@abc-VMware-Virtual-Platform:~$ grep '^[wy]' 1.txt
wy is the short of my name.
abc@abc-VMware-Virtual-Platform:~$
```