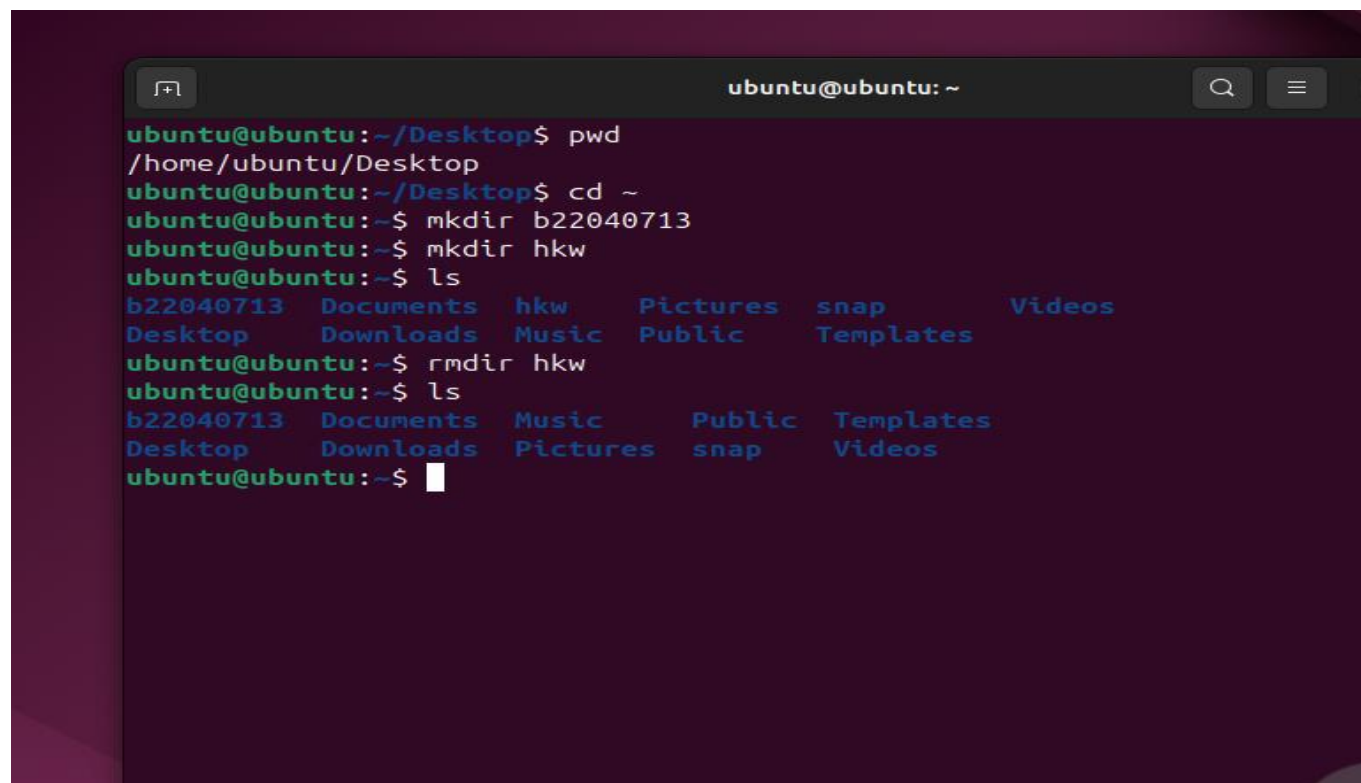


(1)
\$pwd
\$cd ~
\$mkdir your_studentID
\$cd your_studentID
\$mkdir your_name
\$ls
\$rmdir your_name
\$ls

A terminal window titled 'ubuntu@ubuntu: ~' with a dark purple background. The terminal shows a series of commands and their outputs. The user starts in the Desktop directory, changes to the home directory, creates two directories 'b22040713' and 'hkw', lists the contents of the home directory, removes the 'hkw' directory, lists the contents again, and ends with a cursor on the prompt.

```
ubuntu@ubuntu:~/Desktop$ pwd
/home/ubuntu/Desktop
ubuntu@ubuntu:~/Desktop$ cd ~
ubuntu@ubuntu:~$ mkdir b22040713
ubuntu@ubuntu:~$ mkdir hkw
ubuntu@ubuntu:~$ ls
b22040713  Documents  hkw        Pictures  snap      Videos
Desktop   Downloads  Music      Public    Templates
ubuntu@ubuntu:~$ rmdir hkw
ubuntu@ubuntu:~$ ls
b22040713  Documents  Music      Public    Templates
Desktop    Downloads  Pictures    snap      Videos
ubuntu@ubuntu:~$
```

(2)
\$cd ~
\$touch yourname.txt
\$ls
\$echo "hello world" > yourname.txt
\$cat yourname.txt
\$cp yourname.txt yourname2.txt
\$mv yourname.txt yourstudentid.txt
\$ls

```
ubuntu@ubuntu:~$ cd ~
ubuntu@ubuntu:~$ touch hkw.txt
ubuntu@ubuntu:~$ ls
b22040713  Documents  hkw.txt  Pictures  snap      Videos
Desktop    Downloads  Music    Public    Templates
ubuntu@ubuntu:~$ echo "hello world">hkw.txt
ubuntu@ubuntu:~$ cat hkw.txt
hello world
ubuntu@ubuntu:~$ cp hkw.txt hkw2.txt
ubuntu@ubuntu:~$ mv yourname.txt b22040713.txt
mv: cannot stat 'yourname.txt': No such file or directory
ubuntu@ubuntu:~$ mv hkw.txt b22040713.txt
ubuntu@ubuntu:~$ ls
b22040713  Desktop  Downloads  Music  Public  Temp
b22040713.txt  Documents  hkw2.txt  Pictures  snap  Vide
ubuntu@ubuntu:~$
```

(3)

\$whoami

\$sudo su root

#groupadd student

#whoami

#adduser yourstudentID

#usermod -g student yourstudentID

#su yourstudentID

\$cd ~

\$touch yourname.txt

\$ls -l

```
ubuntu@ubuntu:~$ whoami
ubuntu
ubuntu@ubuntu:~$ sudo su root
root@ubuntu:/home/ubuntu#
root@ubuntu:/home/ubuntu# groupadd student
root@ubuntu:/home/ubuntu# whoami
root
root@ubuntu:/home/ubuntu# adduser b22040713
info: Adding user `b22040713' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `b22040713' (1003) ...
info: Adding new user `b22040713' (1003) with group `b22040713 (1003)' .
info: Creating home directory `/home/b22040713' ...
info: Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password fails the dictionary check - it is too simplistic
```

```
info: Adding new user 'b22040713' to supplemental / extra groups
info: Adding user 'b22040713' to group 'users' ...
root@ubuntu:/home/ubuntu# usermod -g student b22040713
root@ubuntu:/home/ubuntu# su b22040713
b22040713@ubuntu:/home/ubuntu$ cd ~
b22040713@ubuntu:~$ touch hkw.txt
b22040713@ubuntu:~$ ls -l
total 0
-rw-r--r-- 1 b22040713 student 0 Dec  9 02:25 hkw.txt
b22040713@ubuntu:~$
```

(4)

```
$ touch demo
$ chmod 777 demo
$ chmod a-x demo      # result is rw-rw-rw-
$ chmod go-w demo     # result is rw-r--r--
$ chmod g+w demo      # result is rw-rw-r--
$ chmod a= demo       # result is -----
$ chmod +t demo       # result is -----T
$ chmod u+s demo      # result is --S-----T
$ chmod u+rx demo     # result is r-s-----T
$ chmod g+rws demo    # result is r-srwS--T
```

```
b22040713@ubuntu:~$ chmod 777 demo
b22040713@ubuntu:~$ ls -l
total 0
-rwxrwxrwx 1 b22040713 student 0 Dec  9 02:27 demo
-rw-r--r-- 1 b22040713 student 0 Dec  9 02:25 hkw.txt
b22040713@ubuntu:~$ chmod a-x demo
b22040713@ubuntu:~$ ls -l
total 0
-rw-rw-rw- 1 b22040713 student 0 Dec  9 02:27 demo
-rw-r--r-- 1 b22040713 student 0 Dec  9 02:25 hkw.txt
b22040713@ubuntu:~$ chmod a-x demo
b22040713@ubuntu:~$ ls -l
total 0
-rw-rw-rw- 1 b22040713 student 0 Dec  9 02:27 demo
-rw-r--r-- 1 b22040713 student 0 Dec  9 02:25 hkw.txt
b22040713@ubuntu:~$ chmod go-w demo
b22040713@ubuntu:~$ ls -l
total 0
-rw-r--r-- 1 b22040713 student 0 Dec  9 02:27 demo
-rw-r--r-- 1 b22040713 student 0 Dec  9 02:25 hkw.txt
b22040713@ubuntu:~$ chmod g+w demo
b22040713@ubuntu:~$ ls -l
total 0
-rw-rw-r-- 1 b22040713 student 0 Dec  9 02:27 demo
```



```

total 0
----- 1 b22040713 student 0 Dec 9 02:27 demo
-rw-r--r-- 1 b22040713 student 0 Dec 9 02:25 hkw.txt
b22040713@ubuntu:~$ chmod +t demo
b22040713@ubuntu:~$ ls -l
total 0
-----T 1 b22040713 student 0 Dec 9 02:27 demo
-rw-r--r-- 1 b22040713 student 0 Dec 9 02:25 hkw.txt
b22040713@ubuntu:~$ cl
-----T 1 b22040713 student 0 Dec 9 02:27 demo
-rw-r--r-- 1 b22040713 student 0 Dec 9 02:25 hkw.txt
b22040713@ubuntu:~$ chmod u+s demo
b22040713@ubuntu:~$ ls -l
total 0
---S-----T 1 b22040713 student 0 Dec 9 02:27 demo
-rw-r--r-- 1 b22040713 student 0 Dec 9 02:25 hkw.txt
b22040713@ubuntu:~$ chmod u+rs demo
b22040713@ubuntu:~$ ls -l
total 0
-r-S-----T 1 b22040713 student 0 Dec 9 02:27 demo
-rw-r--r-- 1 b22040713 student 0 Dec 9 02:25 hkw.txt
b22040713@ubuntu:~$ chmod g+rws demo
b22040713@ubuntu:~$ ls -l
total 0

```

(5)

\$tar -czvf backup.tar.gz others

\$ls -l

\$tar -xzvf backup.tar.gz

\$ls -lObserve changes in the process.

Create a textfile file and make it as follows:

Search for all lines beginning with the character "n" in the file textfile

Search the textfile for all lines ending in ".00"

Search for all lines in the textfile that contain the number 5, followed by the character ".", followed

by any character

Search for all lines starting with the characters "w" and "y" in the file textfile

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.

```
$ grep '^n' textfile
```

```
$ grep '\.00$' textfile
```

```
$ grep '5\.'" textfile
```

```
$ grep '^[wy]'textfile
```

```
liu@liu-virtual-machine:~/b22040713hkw$ grep '^n' textfile
```

```
grep: textfile: 没有那个文件或目录
```

```
liu@liu-virtual-machine:~/b22040713hkw$ grep '^n' k.txt
```

```
no, I study in njupt.this line ends with 00this line ends with .00I am 25 y  
old.He is 15. It is 16.00wy is the short of my name.
```

```
liu@liu-virtual-machine:~/b22040713hkw$ grep '^\.00$' k.txt
```

```
liu@liu-virtual-machine:~/b22040713hkw$ grep '^\.00$' k.txt
```

```
liu@liu-virtual-machine:~/b22040713hkw$ grep '5\.'" k.txt
```

```
no, I study in njupt.this line ends with 00this line ends with .00I am 25 y  
old.He is 15. It is 16.00wy is the short of my name.
```

```
liu@liu-virtual-machine:~/b22040713hkw$ grep '^[wy]' k.txt
```

```
liu@liu-virtual-machine:~/b22040713hkw$ grep '^[wy]'k.txt
```