

(1) Task 1

代码:

\$pwd

\$cd ~

\$mkdir your_studentID

\$cd your_studentID

\$mkdir your_name

\$ls

\$ your_name

\$ls

结果:

```
cf@cf-virtual-machine:~/Linux/Experiment_1$ pwd
/home/cf/Linux/Experiment_1
cf@cf-virtual-machine:~/Linux/Experiment_1$ cd ~
cf@cf-virtual-machine:~$ mkdir B22040817
cf@cf-virtual-machine:~$ cd B22040817
cf@cf-virtual-machine:~/B22040817$ mkdir cf
cf@cf-virtual-machine:~/B22040817$ ls
cf
cf@cf-virtual-machine:~/B22040817$ rmdir cf
找不到命令“rmdir”，您的意思是：
“rmdir”命令来自 Debian 软件包 coreutils (8.32-4.1ubuntu1
.2)
“redir”命令来自 Debian 软件包 redir (3.3-1)
尝试 sudo apt install <deb name>
cf@cf-virtual-machine:~/B22040817$ rmdir cf
cf@cf-virtual-machine:~/B22040817$ ls
cf@cf-virtual-machine:~/B22040817$
```

(2) File operation

代码:

\$cd ~

\$touch yourname.txt

\$ls

\$echo "hello world" > yourname.txt

\$cat yourname.txt

\$cp yourname.txt yourname2.txt

\$mv yourname.txt yourstudentid.txt

\$ls

结果:

```

cf@cf-virtual-machine:~/B22040817$ cd ~
cf@cf-virtual-machine:~$ touch cf.txt
cf@cf-virtual-machine:~$ ls
操作系统基础      模板  文档  桌面      Linux
公共的            视频  下载  B22040817 snap
计算机系统基础  图片  音乐  cf.txt
cf@cf-virtual-machine:~$ echo "hello world" > cf.txt
cf@cf-virtual-machine:~$ cat cf.txt
hello world
cf@cf-virtual-machine:~$ cp cf.txt cf2.txt
cf@cf-virtual-machine:~$ mv cf.txt B22040817.txt
cf@cf-virtual-machine:~$ ls
操作系统基础      模板  文档  桌面      cf2.txt
公共的            视频  下载  B22040817 Linux
计算机系统基础  图片  音乐  B22040817.txt snap

```

(3)User Management

代码:

\$whoami

\$sudo su root

#groupadd student

#whoami

#adduser yourstudentID

#usermod -g student yourstudentID

#su yourstudentID

\$cd ~

\$touch yourname.txt

\$

结果:

```

root@cf-virtual-machine:/home/cf/Linux/Experiment_1# whoami
root
root@cf-virtual-machine:/home/cf/Linux/Experiment_1# adduser
r B22040817
adduser: 请输入匹配 NAME_REGEX[_SYSTEM] 配置选项配置的正则
表达式的用户名。
使用 '--force-badname' 选项可以放松检查或者重新配置 NAME_R
EGEX。
root@cf-virtual-machine:/home/cf/Linux/Experiment_1# adduse
r b22040817
adduser: 用户 "b22040817"已经存在。
root@cf-virtual-machine:/home/cf/Linux/Experiment_1# usermo
d -g student b22040817
usermod: 无改变
root@cf-virtual-machine:/home/cf/Linux/Experiment_1# su b22
040817
b22040817@cf-virtual-machine:/home/cf/Linux/Experiment_1$ c
d ~
b22040817@cf-virtual-machine:~$ touch cf.txt
b22040817@cf-virtual-machine:~$ ls -l
总计 0
-rw-r--r-- 1 b22040817 student 0 12月  9 11:02 cf.txt
-rw-r--r-- 1 b22040817 student 0 10月 14 10:20 chenfeng.txt

```

(4) Permission management

代码:

```

$ 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

```

结果:

```
cf@cf-virtual-machine:~/Linux/Experiment_1$ touch demo
cf@cf-virtual-machine:~/Linux/Experiment_1$ chmod 777 demo
cf@cf-virtual-machine:~/Linux/Experiment_1$ chmod a-x demo
cf@cf-virtual-machine:~/Linux/Experiment_1$ chmod go-w demo
cf@cf-virtual-machine:~/Linux/Experiment_1$ chmod g+w demo
cf@cf-virtual-machine:~/Linux/Experiment_1$  chmod a= demo
cf@cf-virtual-machine:~/Linux/Experiment_1$ chmod +t demo
cf@cf-virtual-machine:~/Linux/Experiment_1$ chmod u+s demo
cf@cf-virtual-machine:~/Linux/Experiment_1$ chmod u+rx demo
cf@cf-virtual-machine:~/Linux/Experiment_1$ chmod g+rws dem
o
cf@cf-virtual-machine:~/Linux/Experiment_1$
```