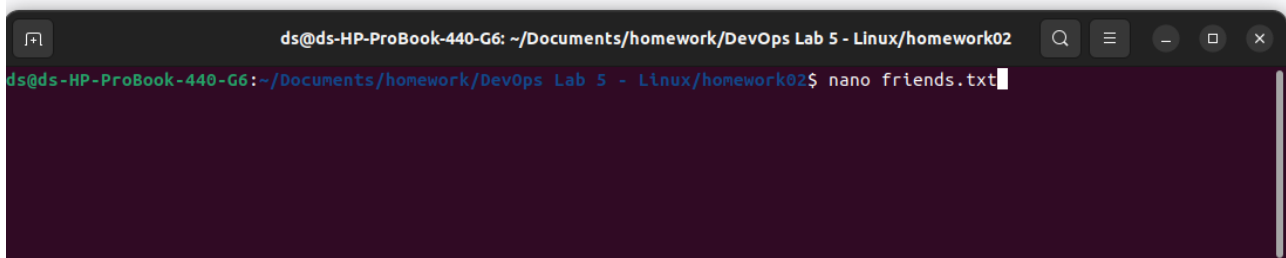# Exercise: Basic Linux & Bash commands

Exercise 01

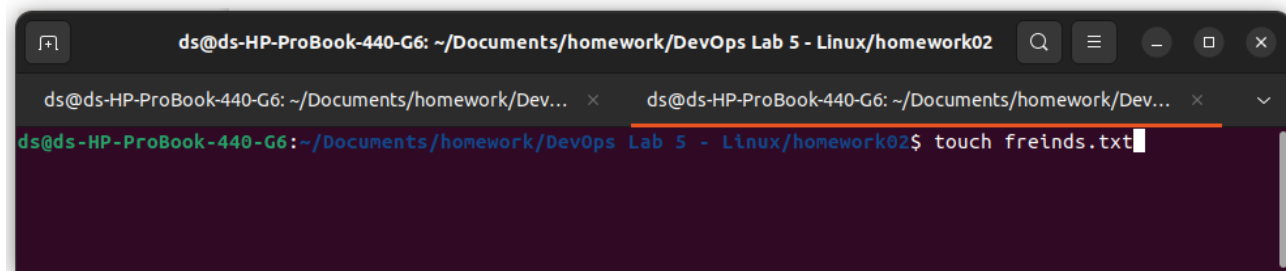### Create a file friends.txt with a list of names of three of your friends on separate lines.

- Lets create new file using nano - text editor, open Terminal and type:

```
$ nano friends.txt
```


- Alternativy you can create new file using touch command

```
$ touch friends.txt
```


- Open the document in text editor and save using ctrl + x and select y
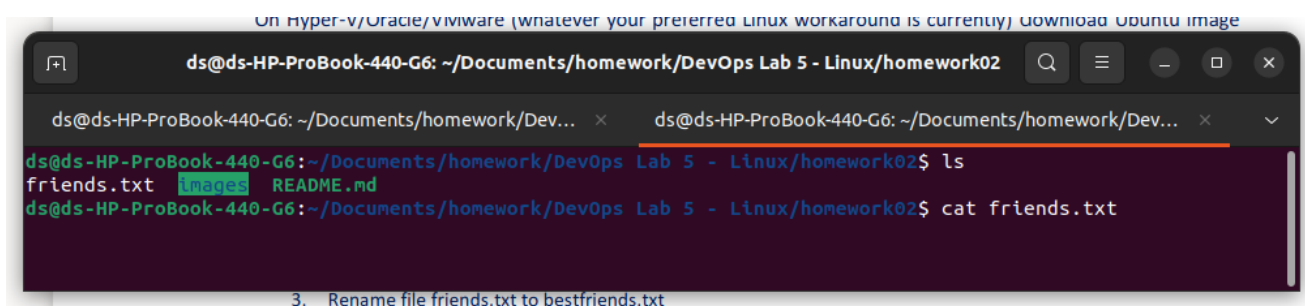
```
$ nano friends.txt
```

Exercise 02
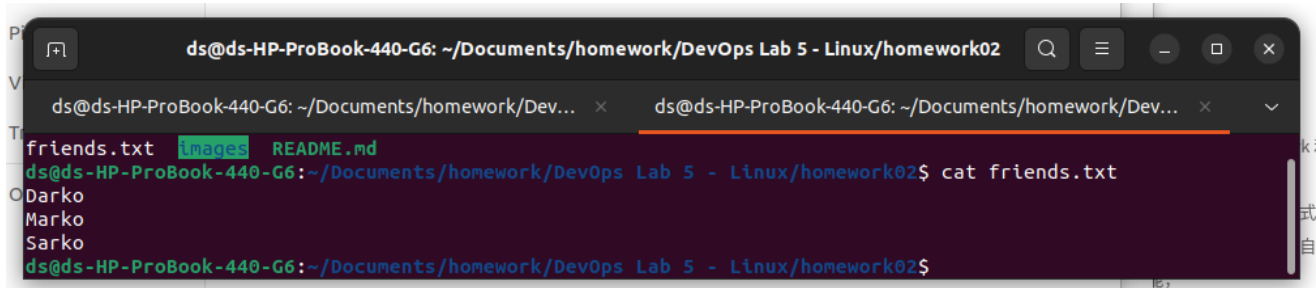
Display the contents of friends.txt on the console.

```
$ cat friends.txt
```


Exercise 03

Rename file friends.txt to bestfriends.txt

- To change the of the use command mv

```
$ mv friends.txt  bestfriends.txt
```

```
ds@ds-HP-ProBook-440-G6: ~/Documents/homework/DevOps Lab 5 - Linux/homework02
ds@ds-HP-ProBook-440-G6:~/Documents/homework/DevOps Lab 5 - Linux/homework02$ mv friends.txt  bestfriends.txt
```

Exercise 04

Make a copy of bestfriends.txt under the name sysadmins.txt

- Copy bestfriends.txt sysadmins.txt using cp command
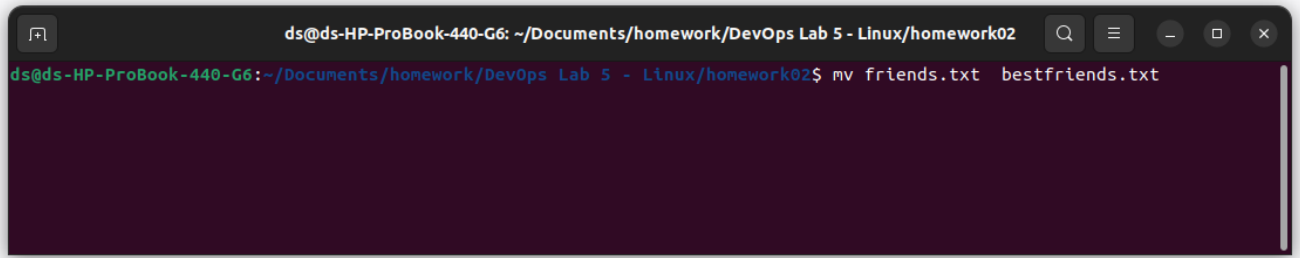
```
$ cp bestfriends.txt sysadmins.txt
```

```
ds@ds-HP-ProBook-440-G6: ~/Documents/homework/DevOps Lab 5 - Linux/homework02
ds@ds-HP-ProBook-440-G6:~/Documents/homework/DevOps Lab 5 - Linux/homework02$ cp bestfriends.txt sysadmins.txt
```

Exercise 05

List all files whose name begins with letter 'b' and ends with extension txt.
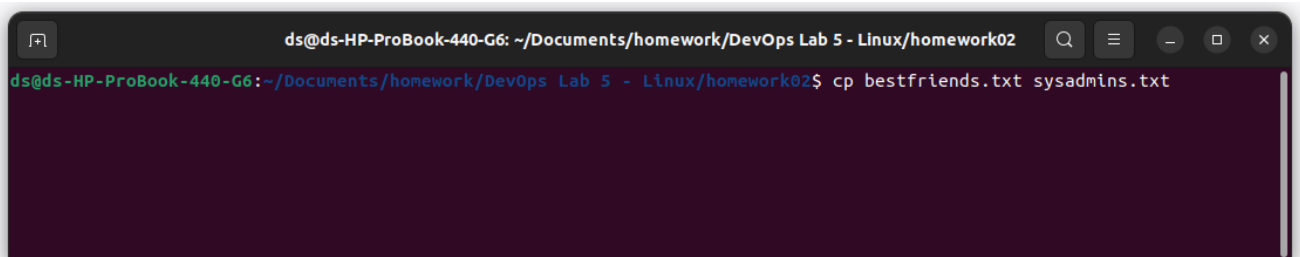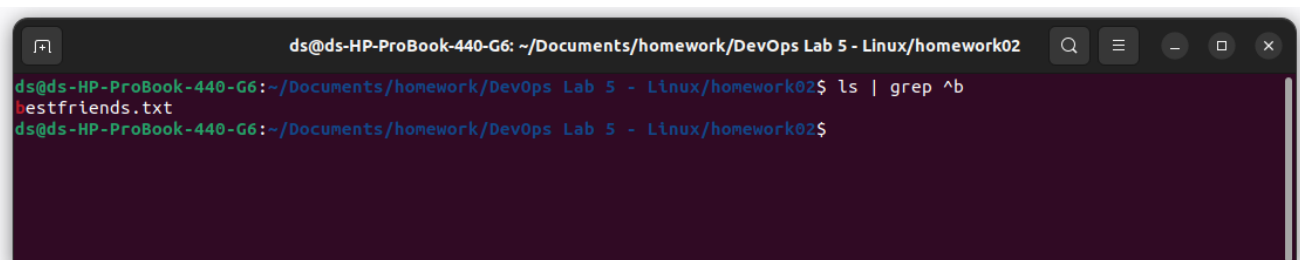
```
$ ls | grep ^b
```

```
ds@ds-HP-ProBook-440-G6: ~/Documents/homework/DevOps Lab 5 - Linux/homework02
ds@ds-HP-ProBook-440-G6:~/Documents/homework/DevOps Lab 5 - Linux/homework02$ ls | grep ^b
bestfriends.txt
ds@ds-HP-ProBook-440-G6:~/Documents/homework/DevOps Lab 5 - Linux/homework02$
```

Exercise 06

Write a command that will tell you how many bytes are taken up by file sysadmins.txt

- we can check the file size using commands

```
ls -l filename | awk '{print $5}'
stat -c %s filename
wc -c < filename
```


Exercise 07

Create file cars.txt with a list of 5 brands of cars on separate lines.

- Open terminal and type
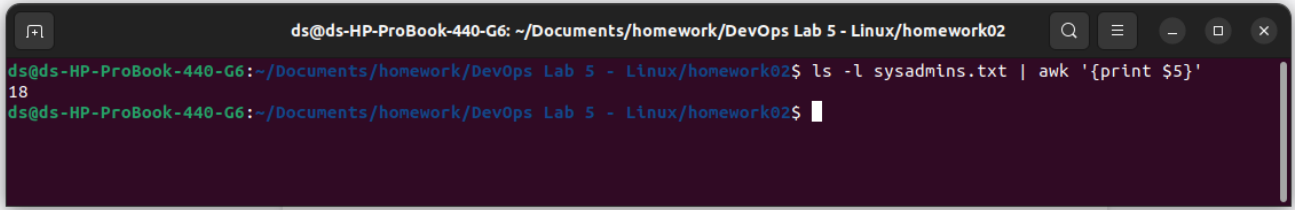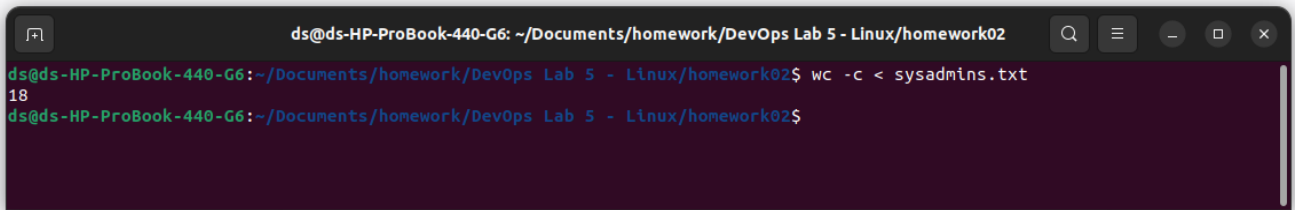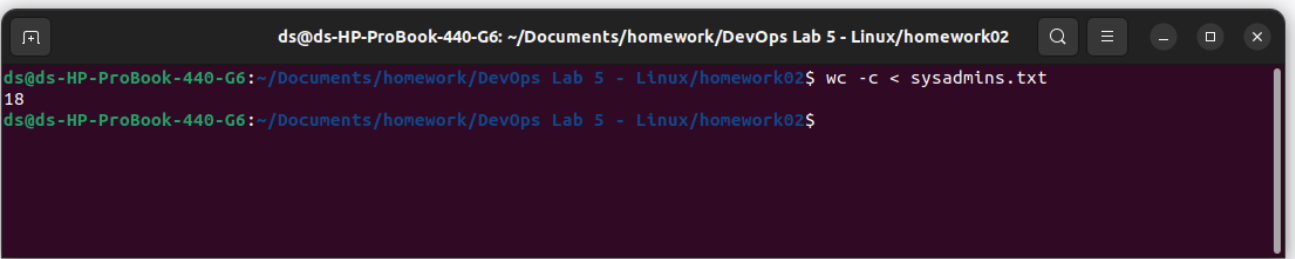
```
nano cars.txt
touch cars.txt
```

```
ds@ds-HP-ProBook-440-G6: ~/Documents/homework/DevOps Lab 5 - Linux/homework02
ds@ds-HP-ProBook-440-G6:~/Documents/homework/DevOps Lab 5 - Linux/homework02$ nano cars.txt
```

```
ds@ds-HP-ProBook-440-G6: ~/Documents/homework/DevOps Lab 5 - Linux/homework02
  GNU nano 6.2                              cars.txt
Opel
Toyota
Bmw
Honda
Ford




^G Help          ^O Write Out    ^W Where Is    ^K Cut      ^T Execute    ^C Location    M-U Undo    M-A Set Mark
^X Exit          ^R Read File    ^\ Replace     ^U Paste    ^J Justify    ^/ Go To Line  M-E Redo    M-6 Copy
```

Exercise 08

Check how many bytes are taken up by the file.

- Open terminal and type

```
$ ls -l cars.txt | awk '{print $5}'
```
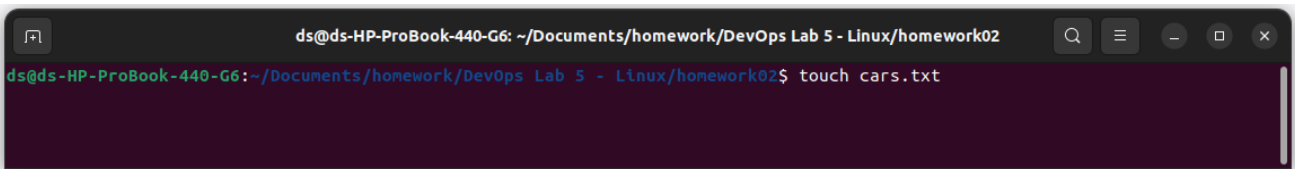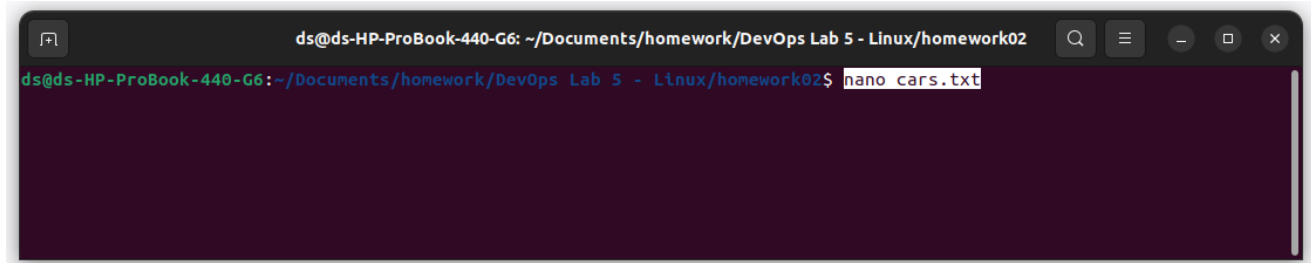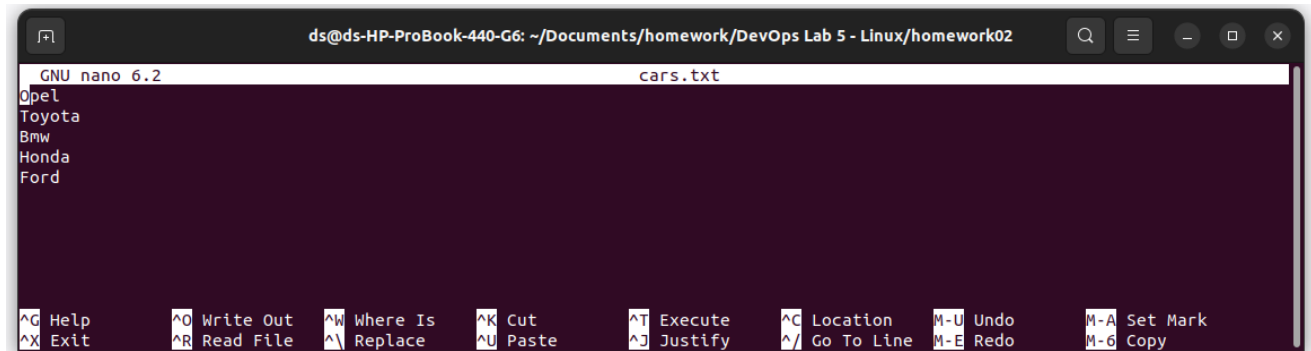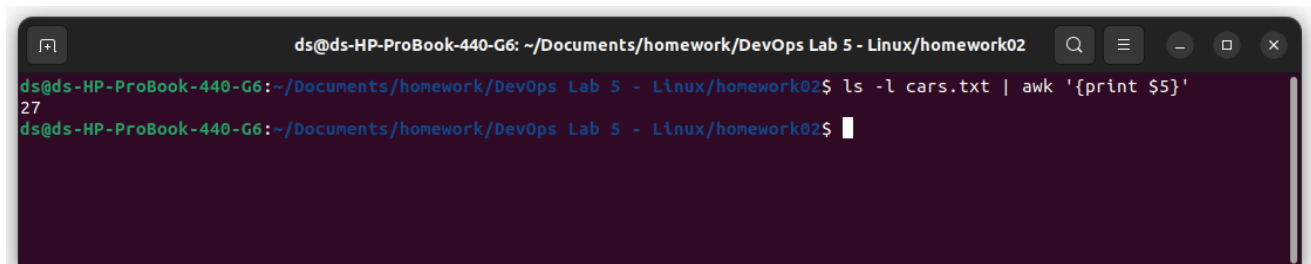
```
ds@ds-HP-ProBook-440-G6: ~/Documents/homework/DevOps Lab 5 - Linux/homework02
ds@ds-HP-ProBook-440-G6:~/Documents/homework/DevOps Lab 5 - Linux/homework02$ ls -l cars.txt | awk '{print $5}'
27
ds@ds-HP-ProBook-440-G6:~/Documents/homework/DevOps Lab 5 - Linux/homework02$ 
```

Exercise 09

Copy the file cars.txt into directory /tmp.
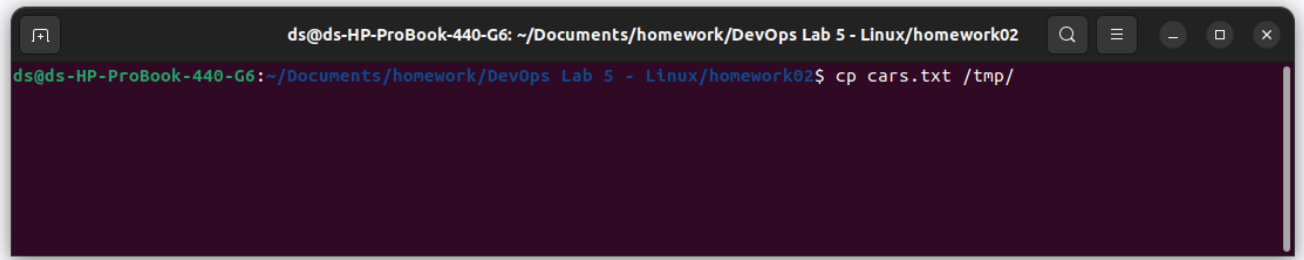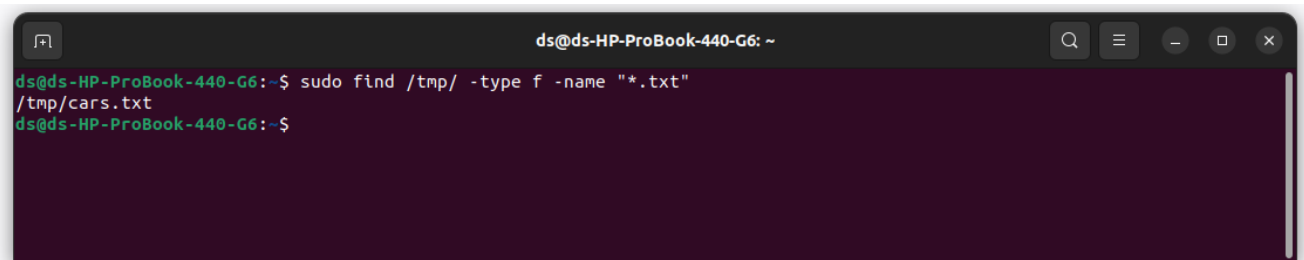
```
$ cars.txt /tmp/
```

```
ds@ds-HP-ProBook-440-G6: ~/Documents/homework/DevOps Lab 5 - Linux/homework02

ds@ds-HP-ProBook-440-G6:~/Documents/homework/DevOps Lab 5 - Linux/homework02$ cp cars.txt /tmp/
```

Exercise 10

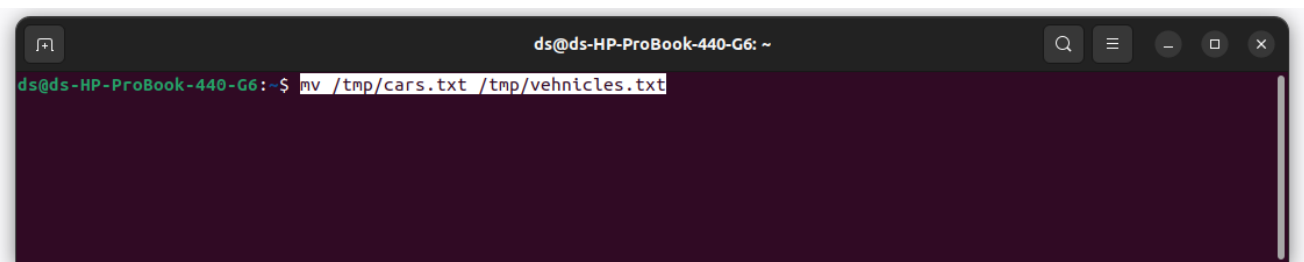List all files with extension *.txt in directory /tmp and verify that the file was copied properly.

```
$ sudo find /tmp -type f -name "*.txt"
```

```
ds@ds-HP-ProBook-440-G6: ~

ds@ds-HP-ProBook-440-G6:~$ sudo find /tmp/ -type f -name "*.txt"
/tmp/cars.txt
ds@ds-HP-ProBook-440-G6:~$
```

Exercise 11

Without leaving your home directory rename file cars.txt located in /tmp to vehicles.txt in /tmp
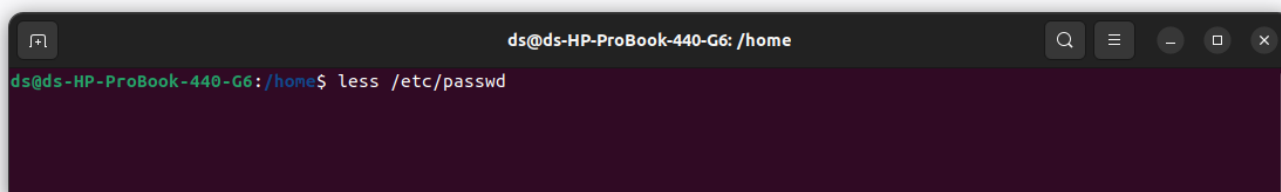
```
$ mv /tmp/cars.txt /tmp/vehnicles.txt
```

```
ds@ds-HP-ProBook-440-G6: ~

ds@ds-HP-ProBook-440-G6:~$ mv /tmp/cars.txt /tmp/vehnicles.txt
```
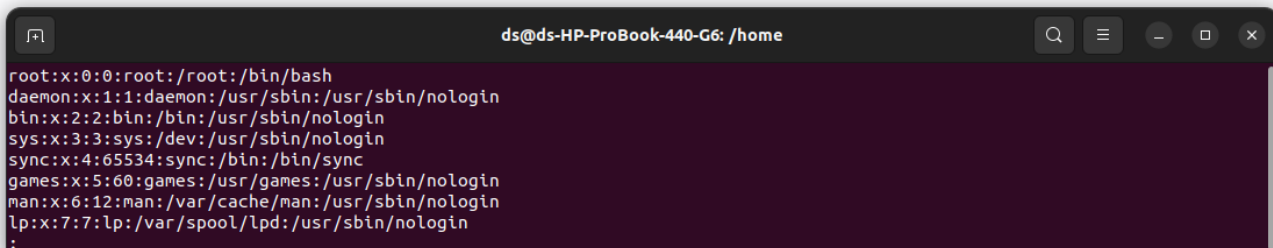
Exercise 12

Display the contents of /etc/passwd file on the screen interactively (so you can search, scroll up and down).

```
$ less /etc/passwd
```

```
┌─┐  ds@ds-HP-ProBook-440-G6: /home          🔍 ≡ ─ ▢ ✕
ds@ds-HP-ProBook-440-G6:/home$ less /etc/passwd


                        7/7

```

```
┌─┐  ds@ds-HP-ProBook-440-G6: /home          🔍 ≡ ─ ▢ ✕
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
:
```