

Homework 07

1 - 7 is a Question Group

1. Create two files named “midterm” and “final” with following content:

Filename	Content
midterm	Alice 77 Bob 85 Charlie 67 David 79 Edmond 92
final	Alice 77 Bob 60 Charlie 78 David 79 Edmond 94 Fiona 65

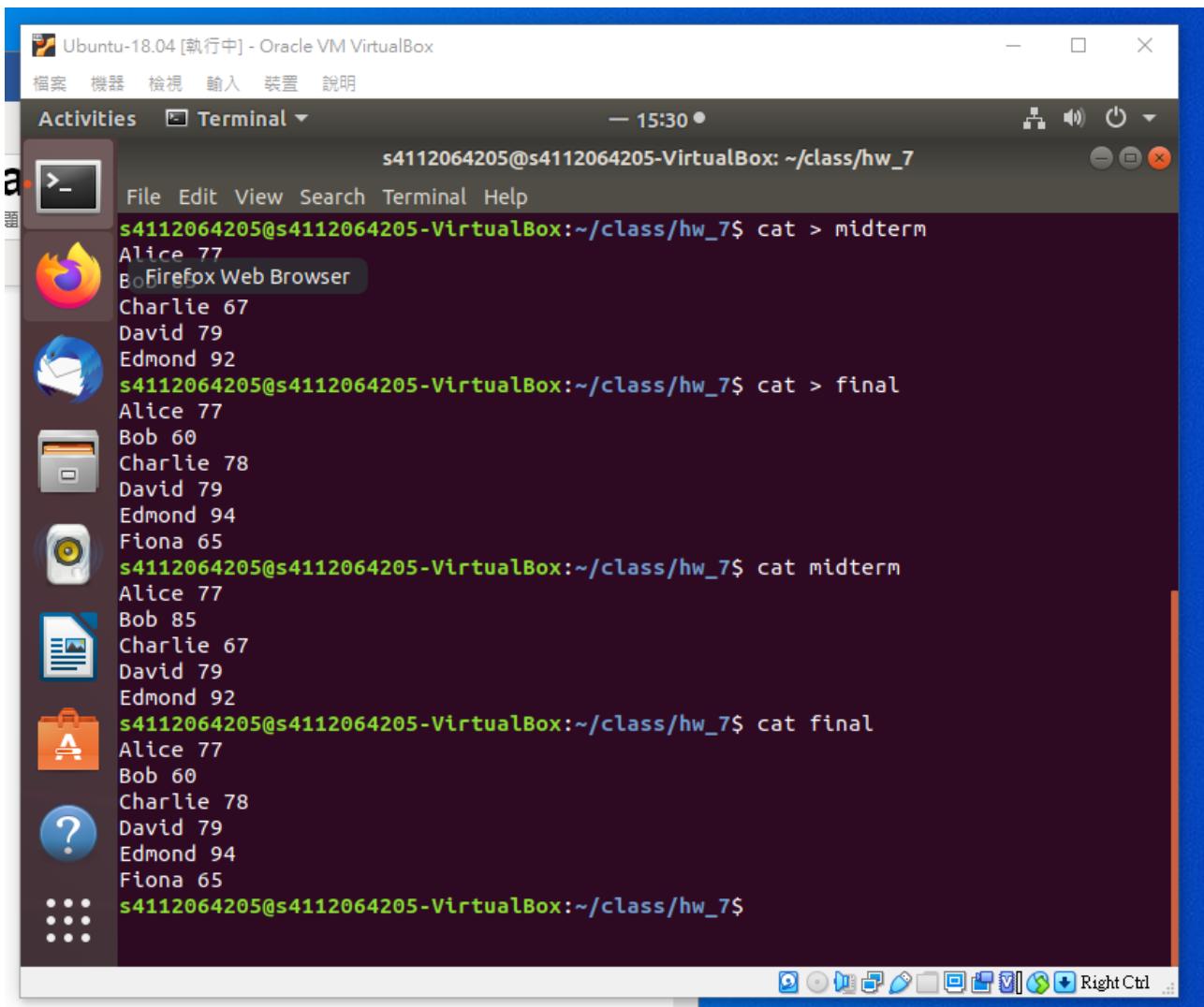
ANS:

(command)
cat > midterm
input : Alice 77
 Bob 85
 Charlie 67
 David 79
 Edmond 92

<Ctrl+d>
cat > final
input : Alice 77
 Bob 60
 Charlie 78
 David 79
 Edmond 94
 Fiona 65

<Ctrl+d>

(screenshot)

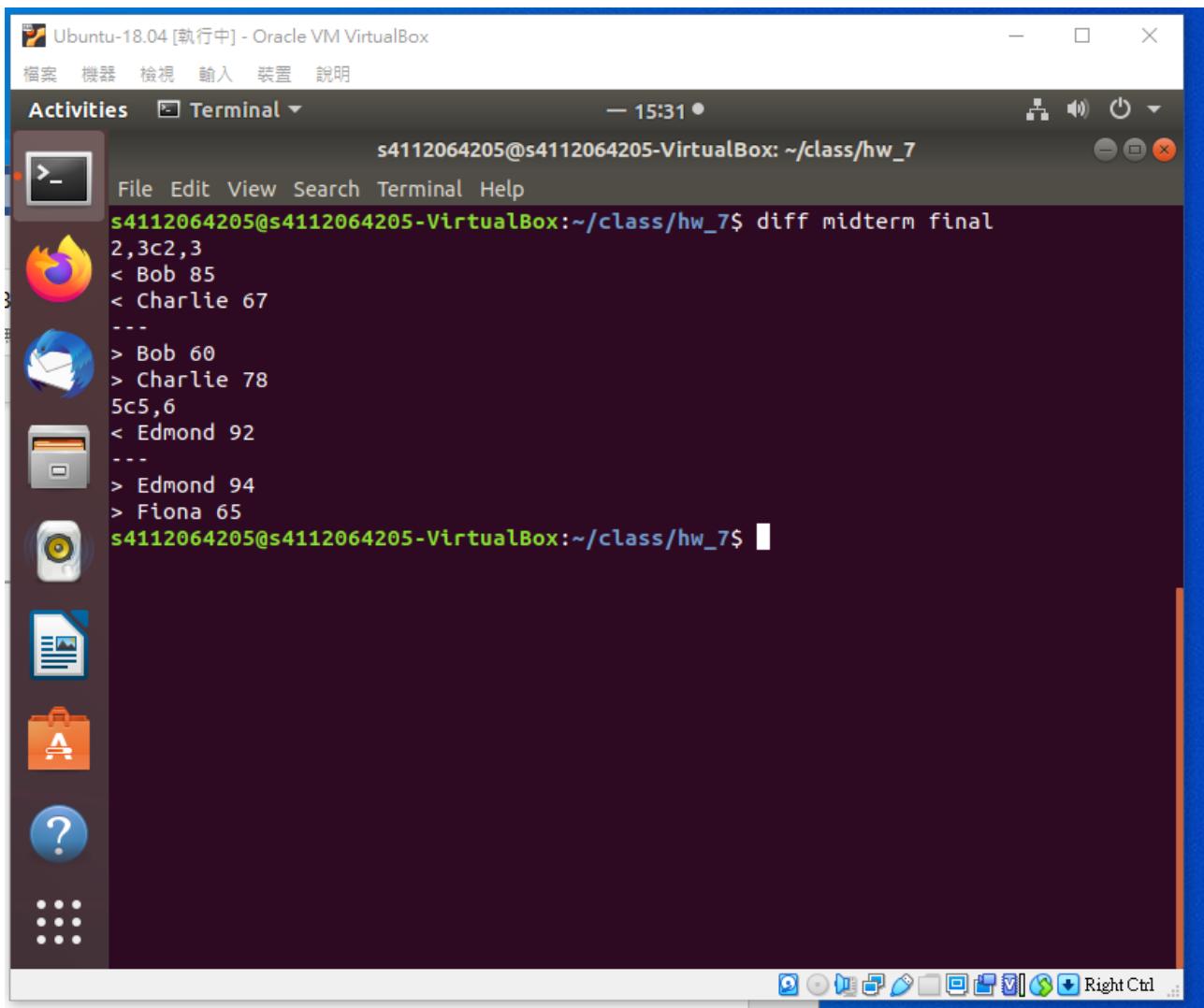


2. Show the difference between “midterm” and “final”.

ANS:

(command)
diff midterm final

(screenshot)



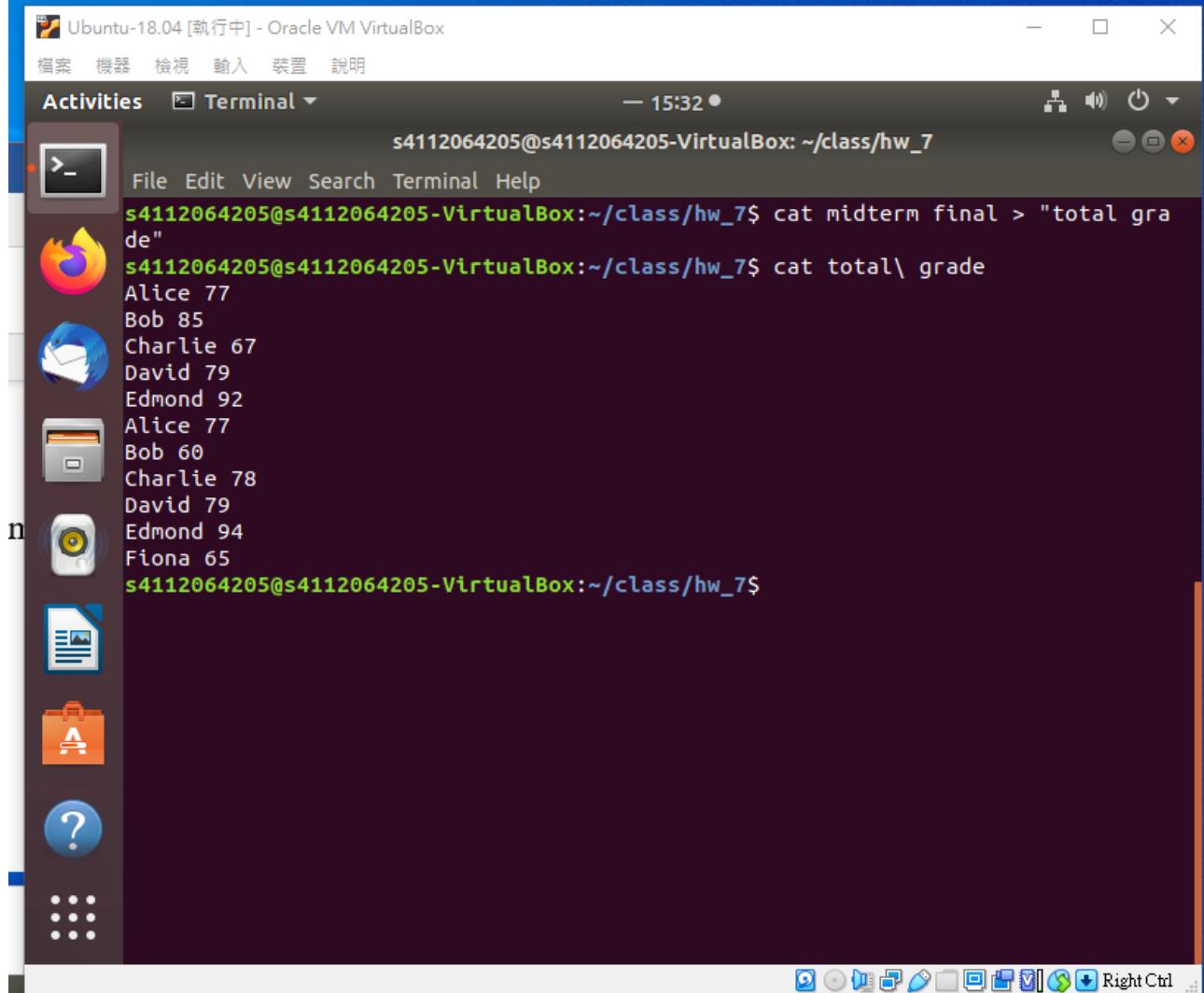
3. Use **one-line** command to merge the files named “midterm” and “final” into the file named “total grade”

ANS:

(command)

cat midterm final > "total grade"

(screenshot)



4. Create another file named “average” with the content “Average 75.56”. Then, append “average” to the file named “total grade”.

ANS:

(command)

cat > average

input : Average 75.56

<Ctrl+d>

cat average >> "total grade"

(screenshot)

The screenshot shows a Linux desktop environment with a dark theme. A terminal window is open in the foreground, displaying the following command-line session:

```
s4112064205@s4112064205-VirtualBox:~/class/hw_7$ cat > average
Average 75.56
s4112064205@s4112064205-VirtualBox:~/class/hw_7$ cat average >> total\ grade
s4112064205@s4112064205-VirtualBox:~/class/hw_7$ cat total\ grade
Alice 77
Bob 85
Charlie 67
David 79
Edmond 92
Alice 77
Bob 60
Charlie 78
David 79
Edmond 94
Fiona 65
s4112064205@s4112064205-VirtualBox:~/class/hw_7$ cat > average
Average 75.56
s4112064205@s4112064205-VirtualBox:~/class/hw_7$ cat average >> total\ grade
s4112064205@s4112064205-VirtualBox:~/class/hw_7$ cat total\ grade
Alice 77
Bob LibreOffice Writer
Charlie 67
David 79
Edmond 92
Alice 77
Bob 60
Charlie 78
David 79
Edmond 94
Fiona 65
s4112064205@s4112064205-VirtualBox:~/class/hw_7$
```

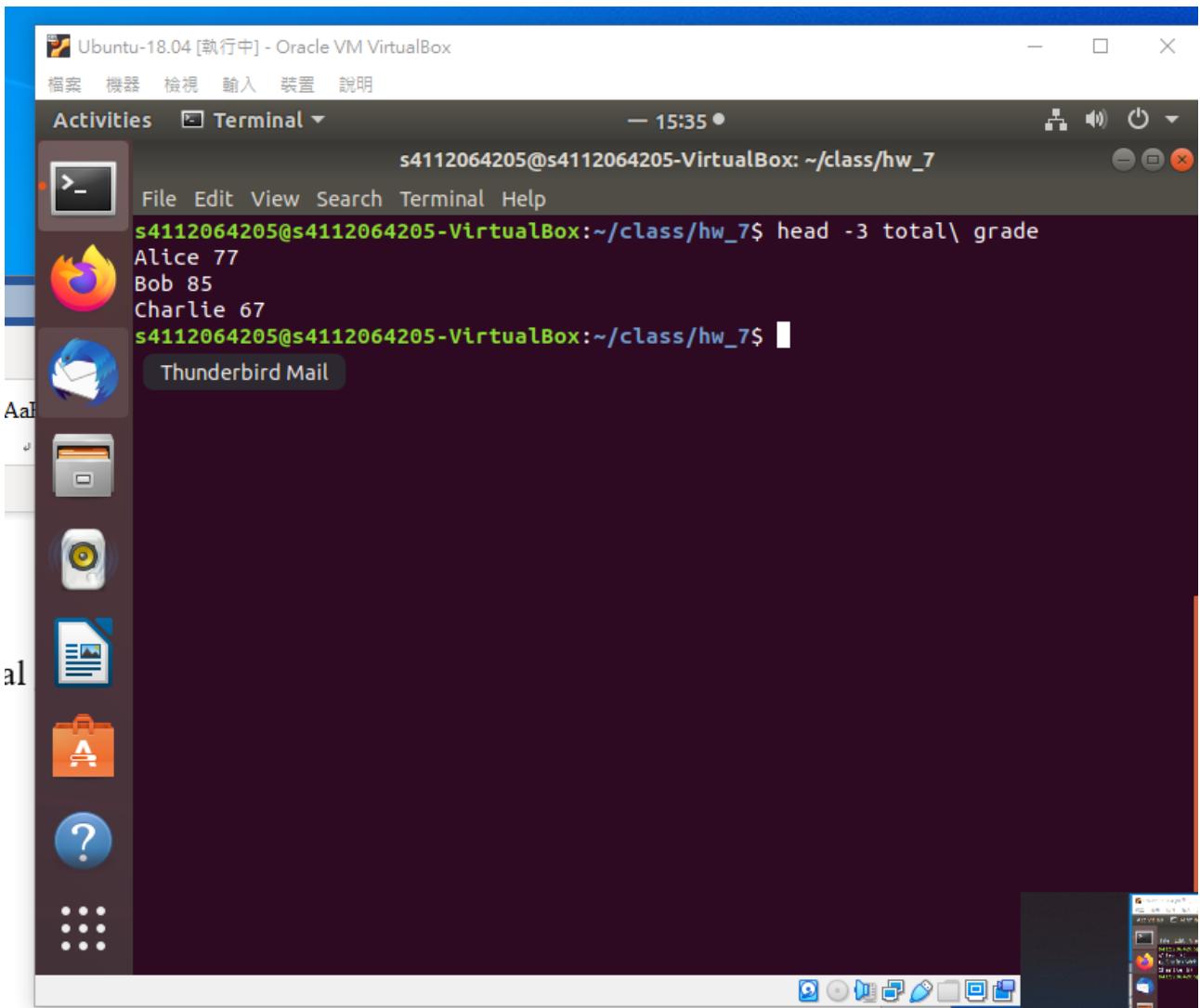
The desktop interface includes a dock with icons for various applications like a browser, file manager, and system tools. The terminal window has a standard title bar with tabs for "Activities" and "Terminal". The status bar at the bottom shows system information and a keyboard layout indicator.

5. Show the first 3 lines of the file named “total grade”.

ANS:

(command)
head -3 “total grade”

(screenshot)



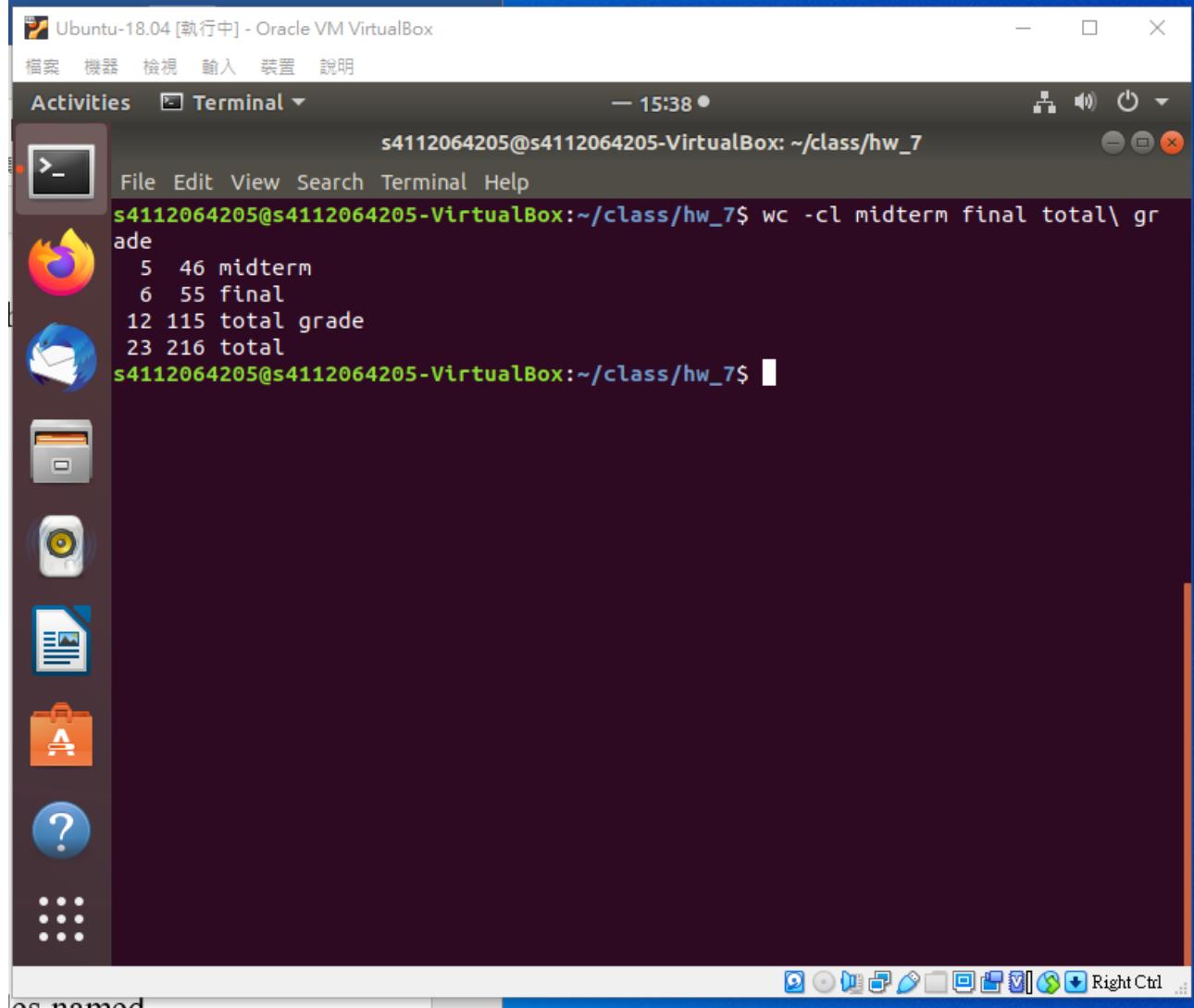
6. Use **one-line** command to only show the number of lines and characters in the files named “midterm”, “final” and “total grade” separately.

ANS:

(command)

wc -cl midterm final “total grade”

(screenshot)



The screenshot shows a terminal window titled "Ubuntu-18.04 [執行中] - Oracle VM VirtualBox". The terminal window has a dark theme. On the left, there is a vertical dock with icons for various applications like the Dash, Home, File Manager, Terminal, and Help. The terminal itself has a dark background and displays the following command and its output:

```
s4112064205@s4112064205-VirtualBox:~/class/hw_7$ wc -cl midterm final total\ grade
      5  46 midterm
      6  55 final
     12 115 total grade
    23 216 total
s4112064205@s4112064205-VirtualBox:~/class/hw_7$
```

7. Create a directory named “class”, and use **one-line** command to move the files named “midterm”, “final”, “total grade” to the directory named “class”.

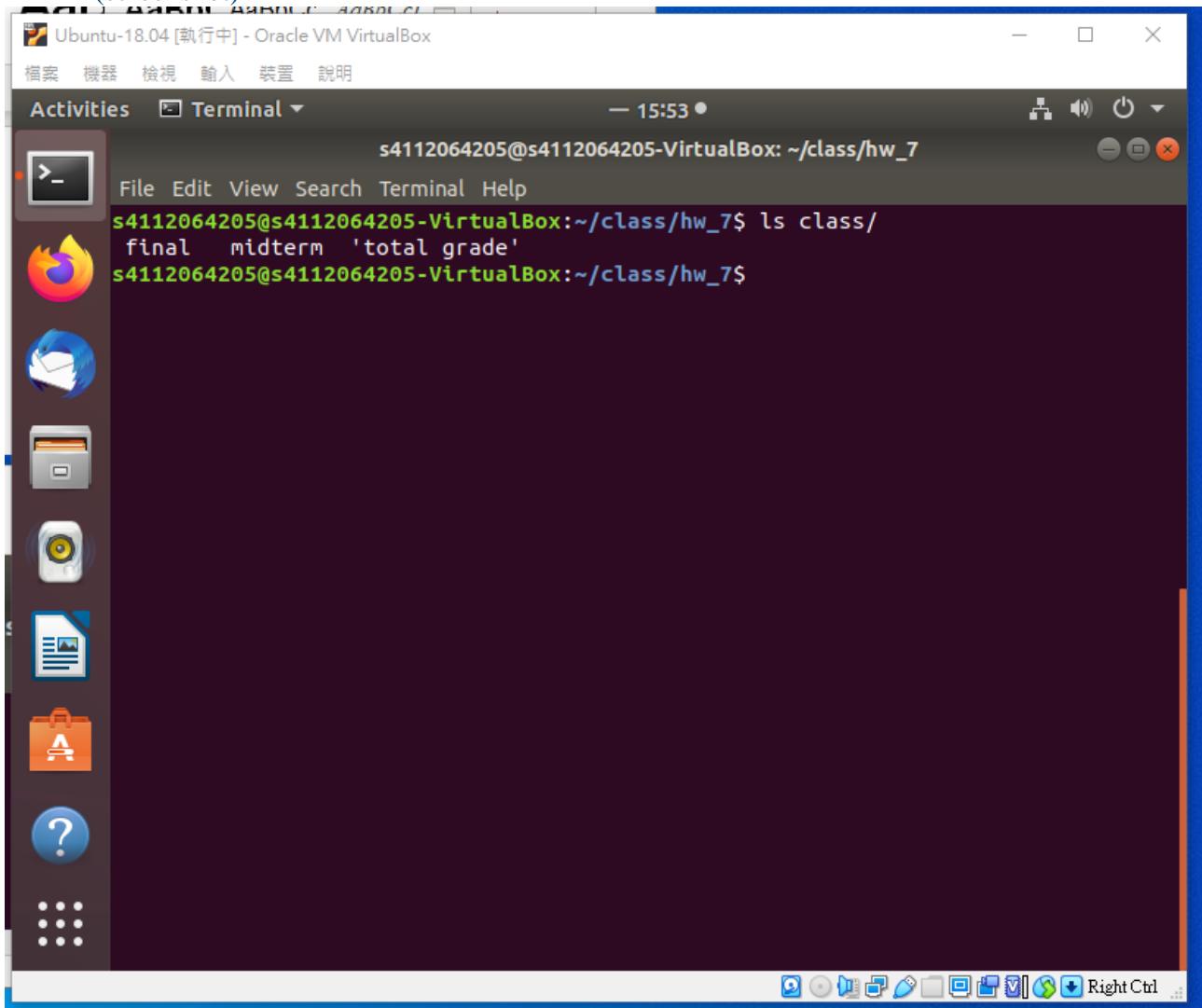
ANS:

(command)

mkdir class

mv midterm final “total grade” class

(Screenshot)



8. Create a file named “Anna” with following content. Then, show the **repeated lines** and the lines that are **not repeated** separately

Content:

```
Do you wanna build a snowman
Do you wanna build a snowman
Do you wanna build a snowman
Come on let's go and play
I never see you anymore, come out the door
```

ANS:

```
(command)
cat > Anna
input : Do you wanna build a snowman
        Do you wanna build a snowman
        Do you wanna build a snowman
        Come on let's go and play
```

I never see you anymore, come out the door

<Ctrl+d>
uniq -d Anna
uniq -u Anna

(screenshot)

```
s4112064205@s4112064205-VirtualBox:~/class/hw_7$ cat > Anna
Do you wanna build a snowman
Do you wanna build a snowman
Do you wanna build a snowman
Come on let's go and play
I never see you anymore, come out the door
s4112064205@s4112064205-VirtualBox:~/class/hw_7$ uniq -d Anna
Do you wanna build a snowman
s4112064205@s4112064205-VirtualBox:~/class/hw_7$ uniq -u Anna
Come on let's go and play
I never see you anymore, come out the door
s4112064205@s4112064205-VirtualBox:~/class/hw_7$
```