

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)

The screenshot shows a terminal window titled "Ubuntu-18.04 [執行中] - Oracle VM VirtualBox". The terminal output is as follows:

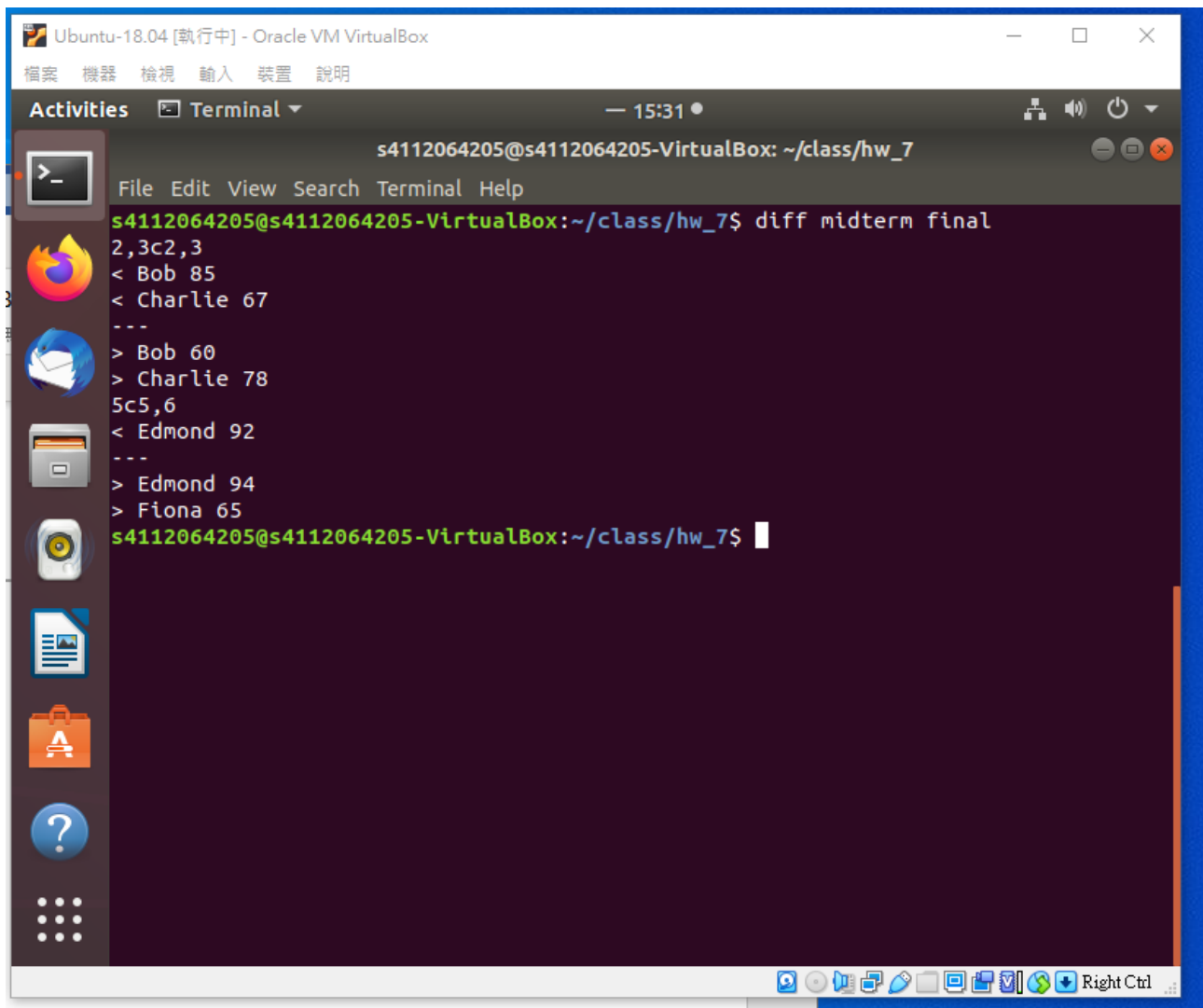
```
s4112064205@s4112064205-VirtualBox: ~/class/hw_7
s4112064205@s4112064205-VirtualBox:~/class/hw_7$ cat > midterm
Alice 77
Bob 60
Charlie 67
David 79
Edmond 92
s4112064205@s4112064205-VirtualBox:~/class/hw_7$ cat > final
Alice 77
Bob 60
Charlie 78
David 79
Edmond 94
Fiona 65
s4112064205@s4112064205-VirtualBox:~/class/hw_7$ cat midterm
Alice 77
Bob 85
Charlie 67
David 79
Edmond 92
s4112064205@s4112064205-VirtualBox:~/class/hw_7$ cat final
Alice 77
Bob 60
Charlie 78
David 79
Edmond 94
Fiona 65
s4112064205@s4112064205-VirtualBox:~/class/hw_7$
```

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

ANS:

(command)
diff midterm final

(screenshot)



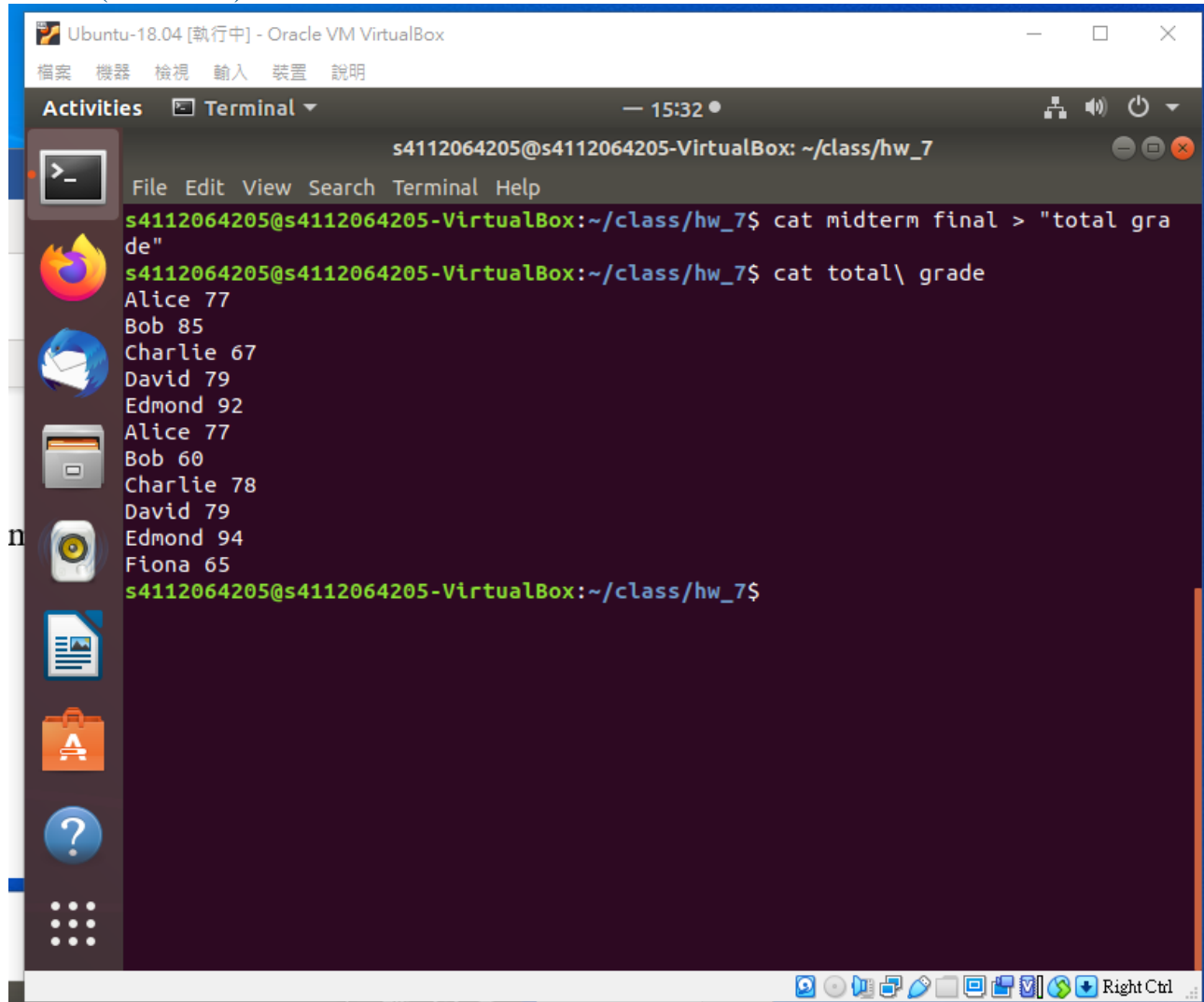
3. Use **one-line** command to merge the files named “midterm” and “final” into the file named “total grade”

ANS:

(command)

cat midterm final > "total grade"

(screenshot)



The screenshot shows a terminal window titled "Ubuntu-18.04 [執行中] - Oracle VM VirtualBox". The terminal prompt is "s4112064205@s4112064205-VirtualBox: ~/class/hw_7". The user enters the command "cat midterm final > \"total grade\"". The output shows the contents of the merged file: "Alice 77", "Bob 85", "Charlie 67", "David 79", "Edmond 92", "Alice 77", "Bob 60", "Charlie 78", "David 79", "Edmond 94", and "Fiona 65". The terminal window has a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The left sidebar shows various application icons, and the bottom status bar includes system icons and a "Right Ctrl" key indicator.

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 terminal window titled "Ubuntu-18.04 [執行中] - Oracle VM VirtualBox". The terminal output is as follows:

```
s4112064205@s4112064205-VirtualBox: ~/class/hw_7
File Edit View Search Terminal Help
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 85
Charlie 67
David 79
Edmond 92
Alice 77
Bob 60
Charlie 78
David 79
Edmond 94
Fiona 65
Average 75.56
s4112064205@s4112064205-VirtualBox:~/class/hw_7$
```

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

ANS:

(command)
head -3 “total grade”

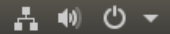
(screenshot)

Ubuntu-18.04 [執行中] - Oracle VM VirtualBox

檔案 機器 檢視 輸入 裝置 說明

Activities Terminal

15:35



File Edit View Search Terminal Help

s4112064205@s4112064205-VirtualBox: ~/class/hw_7



Thunderbird Mail



```
s4112064205@s4112064205-VirtualBox:~/class/hw_7$ head -3 total\ grade
Alice 77
Bob 85
Charlie 67
s4112064205@s4112064205-VirtualBox:~/class/hw_7$
```



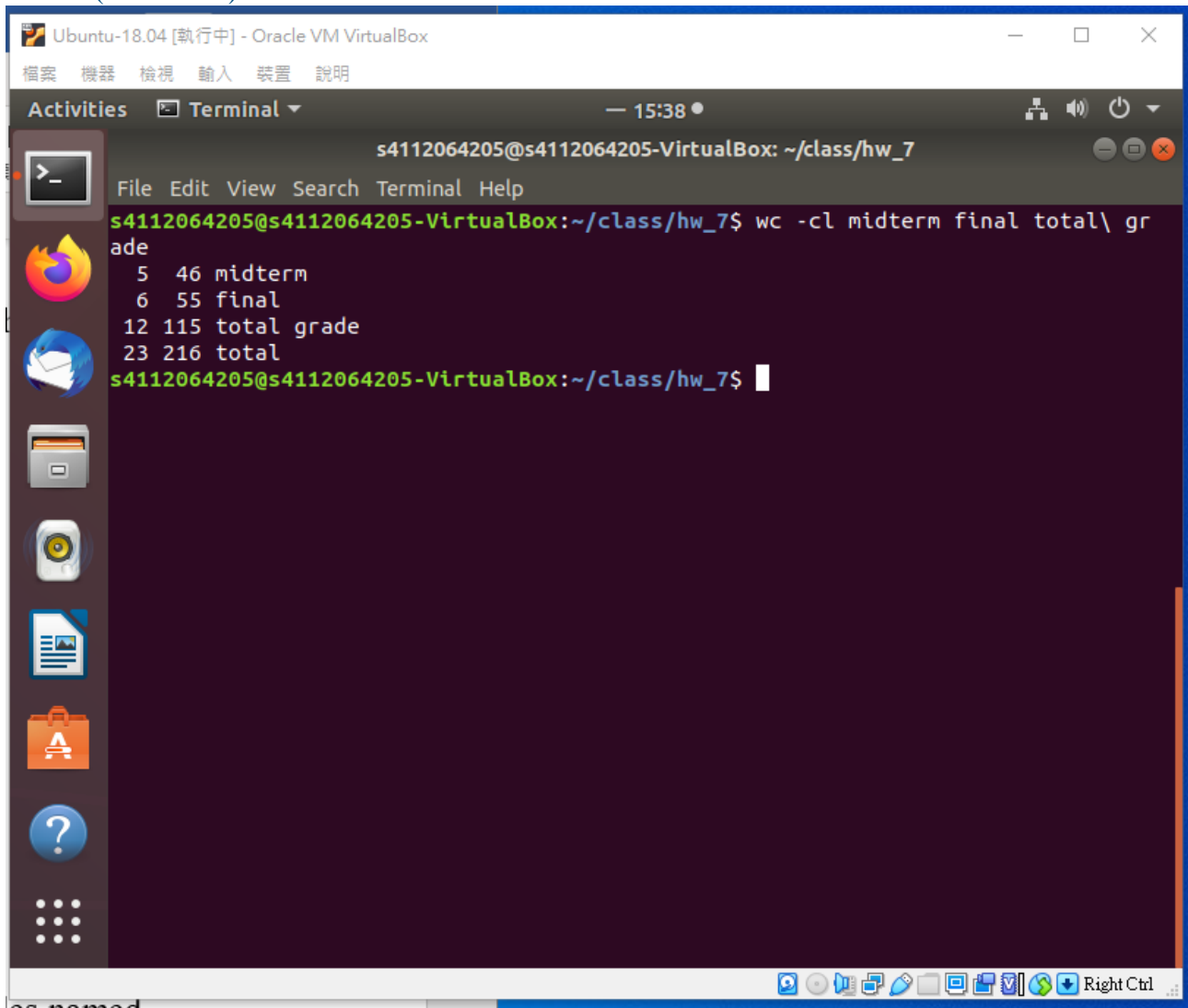
6. Use **one-line** command to only show the number of lines and characters in the files named “midterm”, “final” and “total grade” separately.

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 displays the command `wc -cl midterm final total\ grade` and its output:

```
s4112064205@s4112064205-VirtualBox: ~/class/hw_7
File Edit View Search Terminal Help
s4112064205@s4112064205-VirtualBox:~/class/hw_7$ wc -cl midterm final total\ gr
ade
 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”.

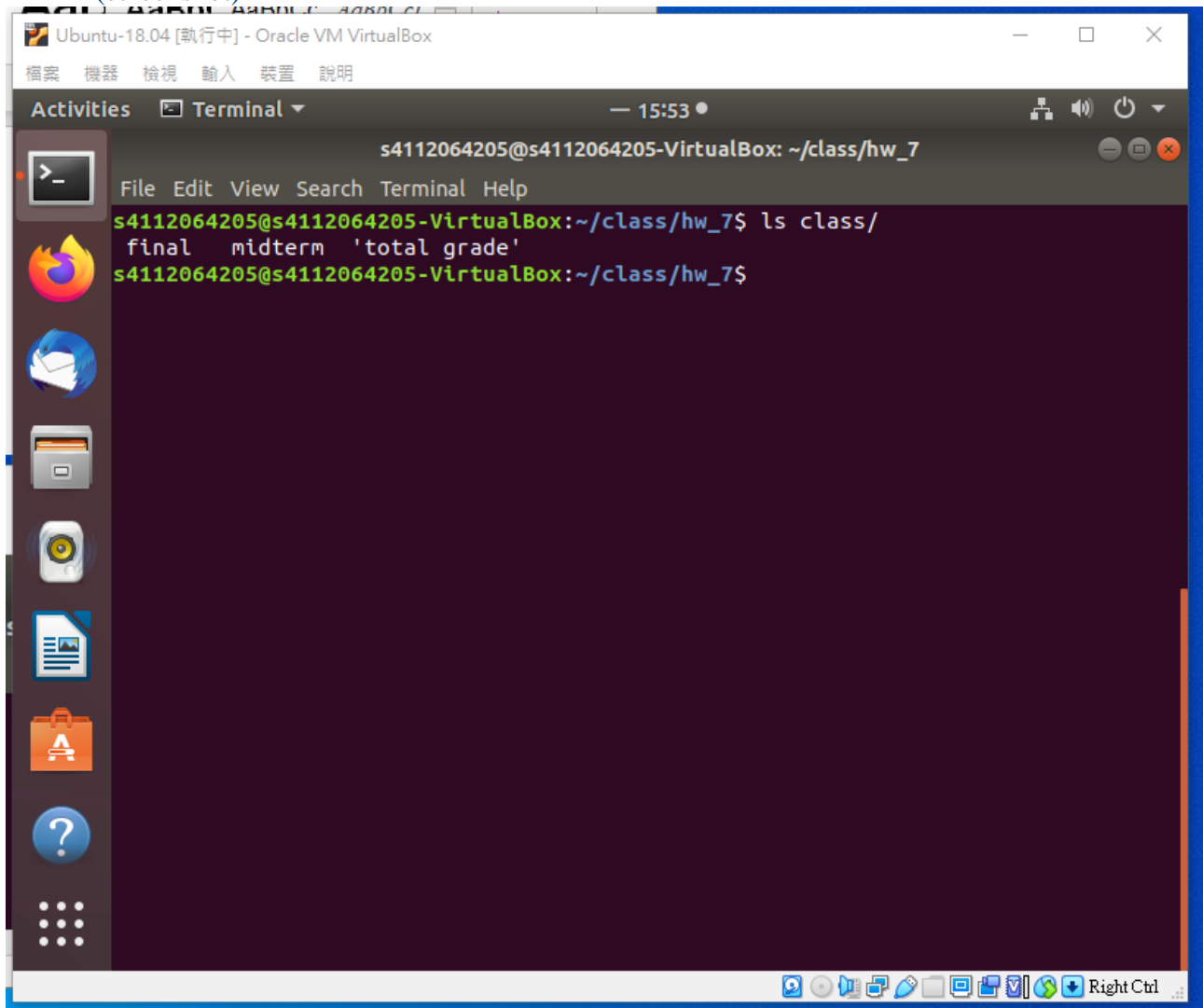
ANS:

(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

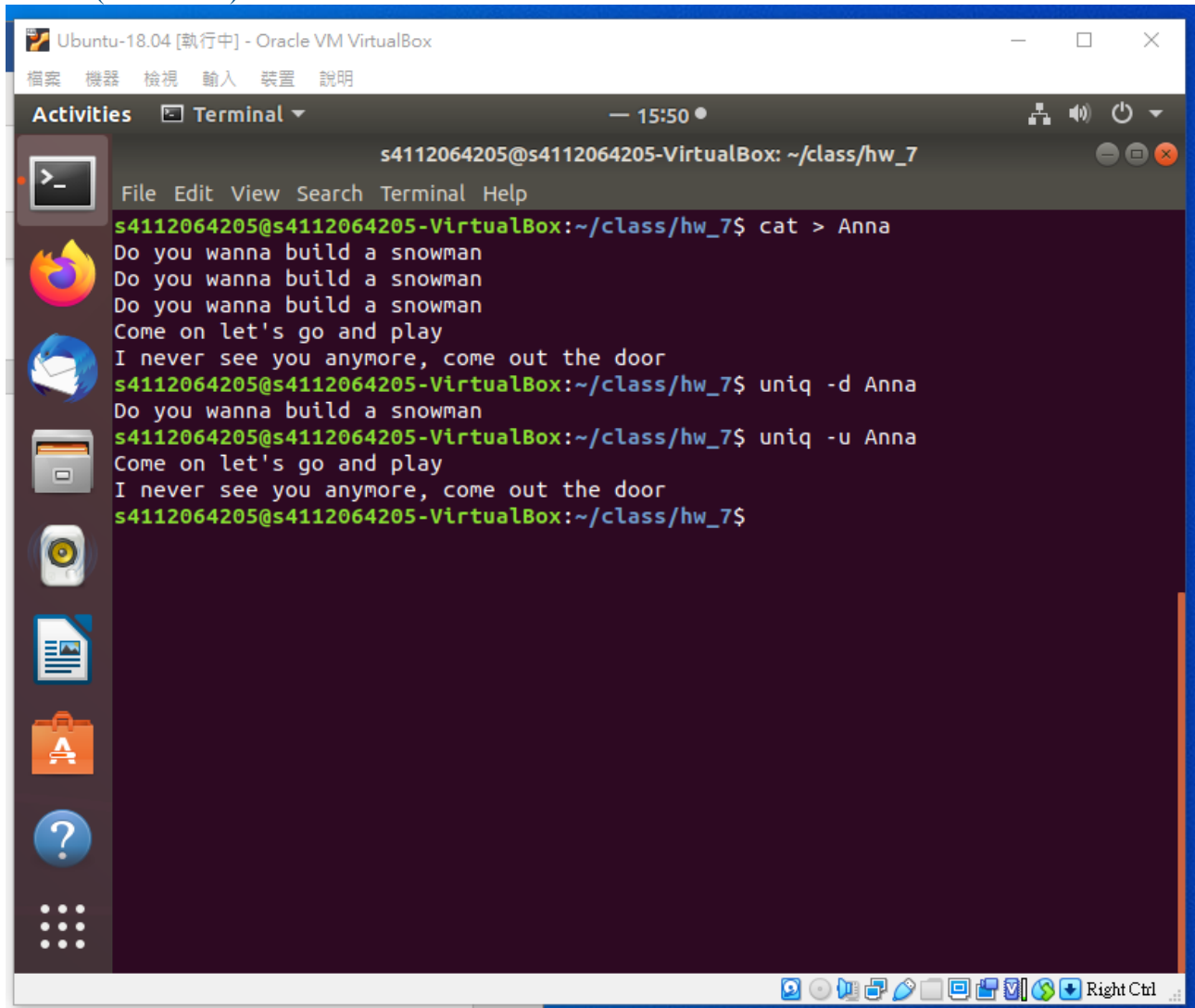
I never see you anymore, come out the door

<Ctrl+d>

uniq -d Anna

uniq -u Anna

(screenshot)



The screenshot shows a terminal window titled "Ubuntu-18.04 [執行中] - Oracle VM VirtualBox". The terminal output is as follows:

```
s4112064205@s4112064205-VirtualBox: ~/class/hw_7
File Edit View Search Terminal Help
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$
```