

OS1 Lab 4.2

Linux Command Line Review Exercises

Sample Solutions

File and Text Exercises

Using the Google Cloud Shell editor, create a file called **capital.txt** with the following five lines:

```
Dublin is the capital city of Ireland.  
Ireland is viewed as the best country in the world by many people.  
Dublin has a population greater than 1 million people.  
There are many places to see and visit in Dublin.  
The largest university in Ireland is TU Dublin.
```

Using the editor, create a second file called **cities.txt** with the following contents:

```
Dublin  
Cork  
Belfast  
Galway  
Waterford  
Kilkenny
```

Please complete the following exercises and write the commands you used as your answer.

1. Display the contents of the file **capital.txt**.

Answer:

```
$ cat capital.txt
```

2. Copy the contents of the files **capital.txt** and **cities.txt** into a new file **join.txt**. Hint: *Use the cat command and redirection.*

Answer:

```
$ cat capital.txt cities.txt > join.txt
```

3. Display the count of the number of lines in the file **capital.txt**. Hint: *Use the wc command and piping or redirection*

Answer:

```
$ cat capital.txt | wc -l  
OR  
$ wc -l < capital.txt
```

4. Display the count of the number of words in the file **capital.txt**.

Answer:

```
$ cat capital.txt | wc -w
OR
$ wc -w < capital.txt
```

5. Count and display just the number of bytes in the file **capital.txt**.

Answer:

```
$ cat capital.txt | wc -c
OR
$ wc -c < capital.txt
```

6. Display a listing of the folders (and only the folders) in your home folder. Hint: *Use the ls and grep commands and piping.*

Answer:

```
$ ls -l ~ | grep ^d
```

7. Display a listing of the files (and only the files including hidden files) in your home folder.

Answer:

```
$ ls -al ~ | grep ^-
```

8. Display the cities in the **cites.txt** file in sorted order.

Answer:

```
$ sort cities.txt
```