Lab 4: Processes and grep

Complete Lesson4 - Create files, display contents and stats
https://www.webminal.org/terminal/

- Answer all of the following questions. ***Questions are given in bold italics***.
- Save all your answers in a file named **YourFirstNameYourLastName**.doc (or the appropriate file extension).
- Upload this file to Blackboard.

1. Create a directory called Lab4 in your home directory.

    Note: Remember Linux is **case sensitive**.
    What is the command you used to create this directory?

2. Run the **ps** command.

    Explain what each of the four columns mean.

3. Run the command **sleep 10**.

    Explain what happens.

4. Run the command **sleep 10 &**.

    Explain what happens. Why?
    How will you know when it is complete?

5. Start a **background** process which sleeps for 1000 seconds.
    List the running processes to confirm it is running in the background.
    Terminate the sleeping process.
    List the running processes to confirm the sleeping process has been terminated.

    State the four commands you used.

Using Nano create a file called **baabaa.txt** with the following text:

> Baa, baa, black sheep,
> Have you any wool?
> Yes sir, yes sir,
> Three bags full.
>
>
> One for my master,
> One for my dame,
> And one for the little boy
> Who lives down the lane.

6. Using the **grep** command, find and print to screen all sentences containing the word "One" in the file   baabaa.txt.

   List the single grep command you used and the sentence(s) returned.

7. Repeat the above but also print the line numbers of the sentence(s) containing "One".

   List the single grep command you used and the sentences (with line numbers) containing "One".

8. Create a file **my.txt** in your **Lab4** directory containing all sentences containing the **whole word** "my" in the file   baabaa.txt.

   Tip: use the grep command and redirection (see Lab 2 slides).
   What was the command you ran? Check the contents of your file is the same as my.txt.

   Insert a screen shot of your session here (q 8).

9. Using grep, count the number of occurrences of the **whole word** "one" in the file baabaa.txt (case **sensitive**).

   What was the command you ran? How many sentences contained the whole word witch?

10. Using grep, count the number of lines with the **whole word** "one" in the file baabaa.txt (case **insensitive**).

    What was the command you ran? How many sentences contained the whole word witch (case insensitive)?

    Insert a screen shot of your session here (q 10).

11. Using grep, list all lines that **start** with "Baa" in the file   baabaa.txt.

What command did you use? (Tip: use a regular expression)

Insert a screen shot of your session here (q 11).