Bash Shell Scripting

Objective

In lab 2, you have learned about more Linux shell commands and you have practiced the bash shell scripting. In this lab, you will solve specific tasks by using the bash command that you learned in lab 2.

Reference

1. Cobbaut, P. (2015). Linux Fundamentals.
2. Duncan, S. P. (2012). The Linux Command Line. Software Quality Professional, 14(4), 51.
3. Unix concepts and applications, Fourth Edition, Sumitabha Das, TMH.

Required Tasks:

1. Write a shell script program to display list of user currently logged in.
2. Write a **(a)** shell script program an **(b)** C program to display \HELLO WORLD"
    - Compare the running time of both the programs using time command
3. **(a)** Write a shell script that takes a command-line argument and reports on whether it is directory, a file, or something else.

    (b) Write a shell script that accepts one or more file name as arguments and converts all of them to uppercase, provided they exist in the current directory.

    (c) Write a shell script that determines the period for which a specified user is working on the system.
4. **(a)** Write a shell script that accepts a file name, starting and ending line numbers as arguments and displays all the lines between the given line numbers.

(b) Write a shell script that deletes all lines containing a specified word in one or more files supplied as arguments to it.

5. Write a shell Script program to check whether the given number is even or odd
6. Write a shell script Program to search whether element is present is in the list or not
7. Write a shell script which receives two file names as arguments. It should check whether the two file contents are same or not.

   (a) If they are the same then second file should be deleted.

   (b) If they are not the same, then copied all contents of the first file to second file
8. Develop an interactive script that ask for a word and a file name and then tells how many times that word occurred in the file
9. Write a shell script to perform the following string operations:

   (a) To extract a sub-string from a given string

   (b) To find the length of a given string
10. Write a shell script program to display the process attributes