

York University
Lassonde School of Engineering
Dept. of Electrical Engineering and Computer Science
EECS 2031
Software Tools
Winter 2016

EECS2031

Lab Test 3

Software Tools

Thursday, Mar. 31st, 2016

6:00– 8:00pm

Question 1 (4 points)

Write a shell script to do the following

The script takes 2 command line arguments each is a filename.

If the number of command line arguments is less than 2, it prints

Use: LT3_A1.sh file_1 file_2

Then quits.

If the number of arguments is 2, and the 2 arguments are file names that do exist and not a directory; it calculates which file is bigger, and then it displays one of the following three outputs depending on the size

File_1 is bigger than File_2

File_2 is bigger than File_1

The two files are of the same size

If the number of arguments is more than 2, it compares the first 2 files as above and display one of the above mentioned three lines followed by

Warning: extra arguments ignored

If one of the files doesn't exist, or it does exist but is a directory, it displays

There is a problem with one of the files

Then, it quits

Submit as 2031 LT3A1 LT3A1.sh

Question 2 (4 points)

Write a shell script that prompts the user to enter the name of a directory

\$-> Please enter a directory name

If the user enters a valid directory name, it lists all the files in the directory and quits.

If the name is not a valid directory, it prompts the user again saying

\$-> I said a directory

If valid, it lists the files in the directory and quits

If still invalid, it prints

\$-> You are hopeless

and quits

Submit as 2031 LT2A2 LT2A2.sh

Examples, user input is in red

LT1A2

\$-> Please enter a directory name XXX

file1 file2

LT1A2

\$-> Please enter a directory name YYY

\$-> I said a directory aaa

\$-> You are hopeless

Question 3 (4 points)

Write a shell script to do the following
it reads 2 values, the first is a file name, the second is a string
If the file name is exit, it quits, else
if the file name exist, it looks for the string in that file, if found, it will display
Found or Not found
Then it loops back to reading two new arguments until it reads "exit"

Submit as 2031 LT2A3 LT2A3.sh

Question 4 (4 points)

Write a sed command that takes a phone number on the form (areacode) prefix-number, for example (416) 736-2100 and change it to (XXX) 736-2100

Submit as 2031 LT2A4 LT2A4.sed

Question 4 (xx points)

Write a sed command that takes a phone number as in Question three and changes the prefix to 555 only for area code 416 and 905

Submit as 2031 LT2A5 LT2A5.sed

List of Linux Commands that might be of use to you

ls wc whoami ps rm cp mv mkdir cd bc bg cat less more
cut tail date diff find head tail od tr