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LAB 02 Advanced Command Line Usage

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Answer all questions for Lab02 in this file.

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QUESTIONS - Managing Processes

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QUESTION 1

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A) load average: 3.90, 3.78, 3.39

B) 2031 total

C) ps -efl | grep u2203724A

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QUESTION 2

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using a command <process> & , for instance, emacs & You can send a process to the background. Sending a process to the

background allows it to run without interfering with the bash prompt. Jobs will now show the process as Running.

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QUESTION 3

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ps -r | wc -l

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QUESTIONS - Variables and the Path Variable

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QUESTION 4

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If a directory is added to the path, a command which is malicious can be executed in every other directory on the computer(not just your own user folder).

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QUESTION 5

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A=Apple

B=Ball

C=Cat

A) Apple

B) AppleBall

C) blank line since a variable 'AB' is not defined

D) blank line

E) Catat (look for variable C and add 'at' string at the end of the output)

F) “Apple Ball Cat”

G) $A $B $C

H) $A

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QUESTIONS - Pipes and Redirection

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QUESTION 6

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Uniq filters out adjacent matching lines from input file and writes the filtered output to another output file. Uniq does not detect repeated lines unless they are adjacent; hence, it is important to sort the input in the beginning.

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QUESTION 7

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1. The grep command is used when searching the text or file for lines containing a certain matching pattern/string. Grep displays the matching lines.

B) from extras

cat Bash-Beginners-Guide.txt | grep 'Chapter'

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QUESTION 8

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sort ~/.bash\_history | uniq -c | sort -n | tail > commands.txt

OUTPUT IN commands.txt file:

5 touch lala

7 gcc -o testing testing.c

7 jobs

8 cd lab1

14 pwd

15 ./something

16 cd

17 gcc -o newfile newfile.c

21 gcc -o something something.c

44 ls

Sorts lines in ~/.bash\_history , then merges adjacent matching lines while also writing the number of occurences. Then sort -n will compare that number of occurences and sort from lowest to biggest

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QUESTION 9

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>' - redirects the O/P to file by creating it and if the file already exists it takes the liberty to overwrite it without user intimation.

'>>' - redirects the output to a file by creating it and if the file already exists, it is appended.

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FINISHED LAB 02 MARKS: XX/XX

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