Week Report 7

Cat Command

*Description *The cat command is used for displaying that content of a file *Usage *cat + option +files(s) to display *Examples *Display the content of a file located in the pwd cat todo.lst *Display the content of a file using absolute path cat ~/Documents/todo.lst

Tac Command

*Description *The tac command is used for displaying the content of a file in reverse order *Usage *tac + option + files(s) to display *Examples *Display the content of a file located in the pwd tac todo.md *Display the content of a file using absolute path tac ~/Documents/todo.md

Head Command

*Description *The head command displays the top N number of lines of a given file *Usage *head + option +file(s)

- Examples *Display the first 10 lines of a file head ~/Documents/Book/dracula.txt *Display the first 5 lines of a file head -5 ~/Documents/Book/dracula.txt

Tail Command

*Description *The tail command displays the last N number of lines of a given file *Usage *tail ~/Documents/Book/dracula.txt *Examples *Display the last 10 lines of a file tail ~/Documents/Book/dracula.txt *Display the last 5 lines of a file tail -5 ~/Documents/Book/dracula.txt

Cut Command

*Description *The cut command is used to extract a specific section of each line of a file and display it to the screen *Usage *cut + option + file(s) *Example *Display a list of all the users in your system cut -d ':' -f1 /etc/passwd *Display a list of all the users in your system with their login shell cut -d ':' -f1,7 /etc/passwd

Paste Command

*Description * the paste command is used for joining files horizontally in columns *Usage *paste + options + files *Examples *Merge two files paste users.lst ip_address.lst *paste -d ":" users1.1st ip_addresses.1st

Sort Command

*Description * The sort command is used for sorting files

- Usage
    - sort + option + file
- Example
    - Sort a file sort users.lst

Wc command

*Description *The wc command is used for printing the number of lines, characters and bytes in a file
*Usage *Display the number of characters in a file wc + option + file(s)

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  *Display the number of lines in a file
   wc -m users.txt
  *Display the number words in a file
  wc -w users.txt
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tr command

*Description *The tr command is used for translating or deleting characters from standard output *Usage *Standard output | tr + option + set + set *Examples *Translate one character to another cat file.txt | tr '.' ',' *Translate white space into tabs cat file.py | tr "[:space:]" '\t' *Translate tabs into space cat file.py | tr -s " [:space:]" ' '

diff command

*Description *The diff command compares files and displays the differences between them *Usage *diff + option +file1 + file2 Examples *Display the differences between two files diff cars.csv cars-backup.csv *Display the differences between two files in a column format diff -y cars.csv cars-backup.csv

grep command

*Description *Grep is used to search text in given file. Grep works line by line basis *Usage *grep + option + search criteria *Examples *Search any line that contains the word "dracula" in the given file grep 'dracula' ~/Documents/dracula.txt

awk command

*Description *awk is a scripting language used for processing and displaying text *Usage *awk + options + {awk command} + file + file to save (optional) *Example *Print the first column of every line of a file awk '{print $1}' ~/Documents/Csv/cars.csv *Convert the first field to upper/lower case awk -F: '{print toupper($1)}' /etc/passwd *Prints the length of a line awk '{print length($0)}' /etc/passwd *Print specific fields based on a command output ls -1hF Documents/ | awk 'BEGIN { printf "%s\t%s\n", "Size","Name"} {print $5,"\t",$9}' *Print specific fields with a head of the /etc/passwd file awk -F: 'BEGIN { printf "%s\t\t%s\n", "User","Shell"} {print $1,"\t",$7}'

sed command

*Description *SED is a stream editor that perform operations on files and standard output *Usage *sed options + sed script + file *Example *Replacing a string in a given file sed 's/pizza/rice/' shopping-list.1st *Replacing the number of occurrences of a pattern in a file sed 's/pizza/rice/4' shopping-list.1st *Replacing all the occurrence of the pattern in a file sed 's/pizza/rice/g' shopping-list.1st *Replacing string on a specific line number sed '3 s/pizza/rice/' shopping-list.1st *Replacing string on a range of lines sed '1,3 s/pizza/rice/' shopping-list.1st