Notes 7

cat

- Definition
- The cat command is used for displaying the contents of a file
- Usage
- cat + option +file(s) to display
- Example
- 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
- Display the content of a file with line numbers
- cat -n ~/Documents/todo.md

tac

- Definition
- The tac command is used for displaying the content of a file in reverse order
- Usage
- tac + option + file(s) to display
- Example
- Display the content of a file located in the pwd
- tac todo.md
- Display the content of the file using absolute path
- tac ~/Documents/todo.md
- reverse a files contents line by line
- tac filename.txt

head

- Definition
- prints the first 10 lines of a file or more
- Usage
- head + option + file(s)
- Example
- Display the first 10 lines of a file
- head ~/Documents/Books/dracula.txt
- Display the first 5 lines of a file
- head -5 ~/Documents/Book/dracula.txt
- Display first lines of many files using wildcards
- head -n 1 *.csv *.py
- Display the given number of lines of the output of a given command
- ls -1 ~/cis106/ | head -n 2
- Display the name of a file in the output

- head -v -n 7 ~/Documents/Books/dracula.txt
- Display a given number of bytes instead of lines
- head -c 50 ~/Documents/Books/dracula.txt

tail

- Definition
- Prints the last 10 lines of a file
- Usage
- tail + option + file
- Example
- 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
- Display the last lines using wildcard
- tail -n 1 *.csv *.py
- Display a given number of lines of the output of a given command
- ls -1 ~/cis106/ | tail -n 2
- Display the name of a file in the output
- tail -v -n 7 ~/Documents/Books/dracula.txt
- Display a given number of bytes instead of lines
- tail -c 50 ~/Documents/Books/dracula.txt

cut

- Definition
- used to extract specific section of each line of a file and display it on the screen
- Usage
- cut + option + files(s)
- Example
- Display a list of all the users in your system
- cut -d ';' -f1 /etc/passwd
- Display the list of all users in your system with their login shell
- cut -d ';' -f1 /etc/passwd
- cut a range of bytes per line
- cut -b 1-5 usernames.txt
- cut a file using a delimiter but changing the delimiter in the output
- cut -d ';' -f1,7 --output-delimiter=' => ' /etc/passwd
- cut the permissions from the output of ls
- ls -1 | cut -d ' ' --complement -s -f1

sort

- Definition
- the sort command is used for sorting files
- Usage
- sort + option + file

- Example
- Sort a file
- sort users.list
- Sort a file and save the output to a new file
- sort -o sorted.lst users.lst
- Sort a file in reverse order
- sort -r users.txt
- Sort a file in column number
- sort --k 2 users.txt

WC

- Definition
- the wc command is used for printing the number of lines, characters and bytes in a file
- Usage
- ec + option + file(s)
- Example
- display the number of characters in a file
- wc -m users.txt
- Display the number of lines in a file
- wc -l users.txt
- Display the number of words in a file
- wc -w users.txt

tr

- Definition
- used for translating or deleting characters from the standard output
- Usage
- standard output | tr + option + set + set
- Example
- Translate a period to a comma
- cat file.txt | tr n'.' ','
- Translate white space into tabs
- cat program.py | tr "[:space:]" '/t/
- Translate labs into space
- cat program.py | tr -s "[:space:]" ' '

diff

- Definition
- compares files and displays the differences between them
- Usage
- diff + option + file1 + file2
- Example
- Display the difference between two files
- diff cars.csv cars-backup.csv
- Display the difference between two files in a column

• diff -y cars.csv cars-backup.csv

дгер

- Definition
- grep is used to search text in given files and works line by line
- Usage
- grep + option + search criteria +file(s)
- Example
- search any line that contains the word dracula
- grep 'dracula' ~/Documents/dracula.txt
- search any word regardless of the case
- grep -i
- remove this word from search
- grep -v
- display line number for every line matched
- grep -n
- search and display the word which matches
- grep -o

-E

• Used to display \$ sign at the end of every line

-d

*specifies the delimiter to use

-f1 + a number

• specifies that for every line in /etc/passwd the first and seventh field should be cut