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# Study Guide

# Question 1

#### awk

Awk is a scripting language used for processing and displaying text. Awk can work with a text file or from standard output awk + options + {awk command} + file + file to save is optional awk '{print \$1}' ~/Documents/Csv/cars.csv awk -F: '{print NR,\$1,\$3}' /etc/passwd awk 'NR > 3 { print }' /etc/passwd

#### cat

The cat command is used for displaying the content of a file. cat + option +files to display cat todo.lst, cat ~/Documents/todo.lst cat -s ~/Documents/todo.md

#### CD

cp copies files/directories from a source to a destination cp + files to copy + destination cp

Downloads/wallpapers.zip Pictures/ cp -r ~/Downloads/wallpapers ~/Pictures/ cp Downloads/wallpapers/\*

~/Pictures/

#### cut

The cut command is used to extract a specific section of each line of a file and display it to the screen cut + option + files cut -d ':' -f1 /etc/passwd cut -d ':' -f1,7 /etc/passwd cut -b 1-5 usernames.txt

#### grep

Grep is used to search text in given file. grep works line by line basis grep + option + search criteria + files grep 'dracula' ~/Documents/dracula.txt grep -i 'dracula' ~/Documents/Books/dracula.txt grep -v 'war' ~/Documents/books/war-amd-peace.txt

#### head

The head command displays the top N number of lines of a given file head + option + files head ~/Documents/Book/dracula.txt head -5 ~/Documents/Book/dracula.txt head 5 ~/Documents/Book/dracula.txt

#### ls

ls is used for listing the content of a given directory or the file itself ls + option + directory to list ls - a ls - a - Pictures ls - lR - Pictures

#### man

man (manual) view the manual of a command man + command man ls man 5 passwd man -k file

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#### mkdir

mkdir is used for creating a single directory or multiple directories mkdir + the name of the directory mkdir wallpapers mkdir wallpapers/ocean mkdir ~/wallpapers/forest

#### mv

mv moves and renames directories mv + source + destination mv Downloads/homework.pdf Documents/ sudo mv ~/Downloads/theme /usr/share/themes mv homework.docx cis106homework.docx

#### tac

The tac command is used for displaying the content of a file in reverse order tac + option + files to display tac todo.md tac ~/Documents/todo.md tac lab7.md

#### tail

The tail command displays the last N number of lines of a given file tail + option + file tail ~/Documents/Book/dracula.txt tail -5 ~/Documents/Book/dracula.txt tail 5 ~/Documents/Book/dracula.txt

#### touch

Touch is used for creating files touch + option touch list touch ~/Downloads/games.txt touch "list of foods.txt"

#### tr

The tr command is used for translating or deleting characters from standard output. Standard output | tr + option + set + set cat file.txt | tr'.', cat program.py | tr "[:space:]" '/t' cat file.py | tr -s "[:space:]" '

#### tree

The tree command shows a list of files in a select folder tree + folder/installation tree -d  $\sim$  tree -a Directory/ tree -f Directory/

## Question 2

# How to work with multiple terminals open

You can work with multiple terminals by having them in different tabs or in separate panes in the same tab You can switch between them using the arrow keys in conjunction with the tab and control/shift keys

## How to work with manual pages

Use the command man + command + name

### How to search for specific words in the manual page

man -s or man -k

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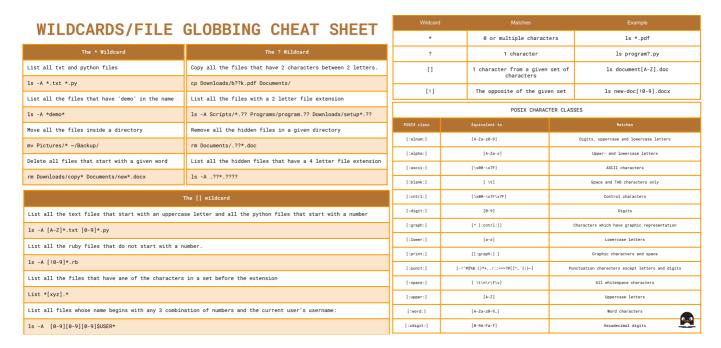
### How to redirect output > and |

The | command is called a pipe. It is used to pipe, or transfer, the standard output from the command on its left into the standard input of the command on its right. "Hello Worlds" | wc -w The > symbol is used to redirect output by taking the output from the command on the left and passing as input to the file on the right. "Hello" > hello.txt

### How to append the output of a command to a file

The >> shell command is used to redirect the standard output of the command on the left and append (add) it to the end of the file on the right. "Hello World!" >> greetings.txt

#### How to use wildcards



### How to use brace expansion

Brace expansions use commands to make folders shortcuts. To use them rm -r wallpapers/ mkdir -p wallpapers/cars/{1080p,2k,4k} tree wallpapers/