Week Report 7

Handling Textfiles.

cat command

- What is the command used for?
 - used for displaying the content of a file.
- What is the formula of the command
 - cat +option +file/s to display

Examples of using the command:

Display the content of a file located in the pwd

* cat todo.list

Display the content of a file using absolute path

* car ~/Documents/todo.lst

tac command

- What is the command used for?
 - displaying the content of a file in a reverse order
- · What is the formula of the command
 - tac + option +file/s to display

Examples of using the command:

Dispplay 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

- What is the command used for?
 - display the top N number of lines of a given file. by default, it prints out the first 10 lines.
- What is the formula of the command
 - head + option +file/s

Examples of using the command:

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

- What is the command used for?
 - o displays the N number of lines of a given file. By default, it prints the last 10 lines
- What is the formula of the command
 - tail + option + file

0

Examples of using the command:

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

- What is the command used for?
 - used to extract a specific section of each line of a file and display it to the screen
- What is the formula of the command
 - cut + option + file/s

Examples of using the command:

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 ':' -f17 /etc/passwd
```

paste command

- What is the command used for?
 - used for joining files horizontally in columns
- What is the formula of the command
 - paste + option + files

Examples of using the command:

Merge two files

```
* paste users.lst ip_address .lst
```

Merge two files using a different delimiter

```
* paste -d ":' users1.lst ip_addresses.lst
```

sort command

- What is the command used for?
 - used for sorting files alphabetically, in reverse order, by number and by month
- What is the formula of the command
 - sort + option +file

Examples of using the command:

Sort a file

```
* sort users.lst
```

Sort a file by column number

```
* sort -k 2 users.txt
```

wc command

- What is the command used for?
 - used for printing the number of lines, characters and bytes in a file
- What is the formula of the command
 - wc + option + file/s

Examples of using the command:

Display the number of characters in a file

```
* wc -m users.txt
```

Display the number of lines in a file

```
* wc -l users.txt
```

tr command

- What is the command used for?
 - used for translating or deleting characters from standard point
- What is the formula of the command
 - standard output | tr +option + set + set

Examples of using the command:

Translate one character to another (a period with a comma)

```
* cat file.txt | tr '.' ','
```

Translate tabs into space

```
* cat file.py | tr -s "[:space:]" '/t'
```

diff command

- What is the command used for?
 - compares files and displays the differences between them
- What is the formula of the command
 - diff + option + file1 +file2

Examples of using the command:

Display the difference between two files

```
* diff cars. csv cars-backup.csv
```

Display the difference between two files in a column format:

```
* diff -y cars. csv cars-backup.csv
```

grep command

• What is the command used for?

- to search text in a given file.
- What is the formula of the command
 - grep + option + search criteria + file/s

Examples of using the command:

Search any lines that contains the word "dracula" in the given file

```
* grep 'dracula- ~Documents/dracula.txt
```

Search and match only the word

```
* grep -o 'dracula ~/Documents/Books/dracula.txt
```

awk command

- What is the command used for?
 - a scripting language used for processing and displaying text.
- What is the formula of the command
 - awk + options + {awk command} + file + file to save (optional)

Examples of using the command:

Print the first column of every line of a file

```
* awk {print $1} ~/Documents/Csv/cars.csv
```

Print first field of /etc/passwd

```
* awk -F: '{print$1}' /etc/passwd
```

Print the last field of the /etc/passwd file

```
* awk -F: '{print $NF} /etc/passwd
```

print the first and last field of the /etc/passwd

```
* awk -F: '{print $1," = ", $NF} /etc/passwd
```

Print the first and 3 fields with line numbers

```
* awk -F: '{print NR,$1,$3}' /etc/passwd
```

sed command

- What is the command used for?
 - a stream editor that performs operations on files and standard output.
- What is the formula of the command:
 - sed options + sed script + file

Examples of using the command

Replacing a string in given file (replace pizza for rice)

```
* sed 's/pizza/rice/' shopping-list.lst
```

Replacing the number of occurrences of a pattern ina file

```
* sed 's/pizza/rice/4' shopping-list.lst
```

Replacing all the occurrences of the pattern in a file

```
* sed 's/pizza/rice/g' shopping-lst.lst
```

Replacing string on a specific line number

```
* sed '3 s/pizza/rice/' shopping-list.txt
```

Replacing string on a range of lines

* sed '1,3 s/pizza/rice/' shopping-list.lst