# Definitions & Explanations

- cat command
    - Displays the content of a file
        - Example
            - cat + option + file(s) to display
        - cat word.txt
            - Displays the content of word.txt
        - cat -b ~/Documents/Books/Love.txt
            - Displays word.txt content with line numbers excluding empty lines
- tac command
- Displays the content of a file in reverse order in an output
    - Example
        - tac + option + file(s) to display
    - tail war.txt
        - Displays content of war.txt in reverse order
    - tac ~/Documents/Books/war.txt
        - Displays in reverse order using absolute path
- head command
- Displays the first lines of a given file, by default the last 10. Can list more than one file's first lines.
    - Example
        - head + option + file
    - head dracula.txt
        - Displays the first 10 lines of dracula.txt
    - head -v -n 7 dracula.txt
        - Displays the name of the file in the output
- tail command
- Displays the last lines of a given file, by default the last 10. Can list more than one file's last lines.
    - Example
        - tail + option + file
    - tail dracula.txt
        - Displays the last 10 lines of dracula.txt
    - tail -v -n 7 dracula.txt
        - Displays the name of the file in the output
- cut command
- Extracts a specific section of a line and displays it
    - Example
        - cut + option + file(s)
    - cut -d":" -f1 /etc/passwd
        - Displays a list of all users in your system
    - cut -d":" -f1,7 /etc/passwd
        - Displays a list of users in your system with their login shell
- sort command
- Sorts files either alphabetically, in reverse order, by number, and by month.
    - Example

- - - sort + option + file
    - sort users.txt
      - Sorts the file
    - sort -o sorted.lst users.lst
      - Sorts the file and saves the output to a new file
    - sort -k 2 users.txt
      - Sorts by column number
    - sort -t";" -u users.txt
      - Sets a delimiter of ; and sorts and removes duplicate entries
- wc command
- Prints the number of lines, characters, and bytes in a file
  - Example
    - wc + option + file(s)
  - wc -m users.txt
    - Displays the number of characters in a file
  - wc -l users.txt
    - Displays the number of lines in a file
  - wc -w users.txt
    - Displays the number of words in a file
- diff command
- Compares files and displays the differences between them
  - Example
    - diff + option + file1 + file2
  - diff cars.csv cars-backup.csv
    - Displays the differences between the two files
  - diff -y cars.csv cars-backup.csv
    - Displays the differences between both files in a column format
- grep command
- Used to search for text in a file or multiple files. Works in a line by line basis.
  - Example
    - grep + option + search criteria + file(s)
  - grep "dracula" ~/Documents/Books/dracula.txt
    - Looks for the word dracula in the dracula.txt file
  - grep -in "dracula" ~/Documents/Books/dracula.txt
    - Looks for the word dracula regardless of character case and displays numbered lines
  - grep -oc "pride" ~/Documents/Books/war-and-peace.txt
    - Looks for the word pride that exactly match the string and displays how many lines the matched string appears