Notes 7

awk

- **Definition**
- awk is used for processing and displaying text awk can work with a text file or a standard output
- **Usage**
- `awk + options + awk command + file + file to save`
- **Example**
- Print the first column of every line of a file
- `awk {print $1}' ~/Documents/Csv/cars.csv`
- Print first field of a file
- `awk -F: '{print $1}' /etc/passwd`
- Print the last field of a file
- `awk -F: '{print $NF}' /etc/passwd`
- print the first and last field of a file
- `awk -F: '{print $1," + " ,$NF}'`
- print the first and last 3 field with line numbers
- `awk -F: '{print NR,1$,$3}'(and file)`
- print first and fourth field with line numbers
- `awk -F: '{OFS="="}{PRINT $1,$4}'(file`
- start printing a file from a given line without the first 2 lines
- `awk 'NR > 3 { print }'(file)`
- Convert the first field to upper or lowercase
- `awk -F: '{print toupper($1)} (file)`
- prints the length of a line
- `awk '{print length($0)}'(file)`
- Print specific fields with a head of the /etc/passwd file
- `ls -1hF Document/ | awk 'Begin {printf "%s\t%s\n", "Size" , "Name"} {print $5,"\t" ,$9}'`
- Print specific fields with a head of the file (etc/passwd in this case)
- `awk -F: 'BEGIN { printf "%s\t\t%s\n","User", "Shell" } {print $1,"\t",$7}' /etc/passwd`

sed

- **Definition**
- Stream editor that performs operations on files and standard output
- **Usage**
- `sed options + sed script + file`
- **Example**
- Replacing a string in a given file this example pizza for rice
- `sed 's/pizza/rice/' (file) shopping-list.lst`
- to delete a particular line (this case line 5)
- `sed '5d' shopping-list.lst`

- Replace string on a specific line number
- `sed '3 s/pizza/rice/' shopping.list.lst`

less

- **Definition**
- used to view contents of text tile
- **Usage**
- `less + option`
- **Example**
- scroll forward N lines
- `` `less -N (filename) ``
- to start at a certian line
- `less +100 (filename)`
- start at the first match of a word
- `;ess +/ERROR logfile.log` logfile= filename