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## WEEK REPORT 7:

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### Cat Command

Cat Command is used for displaying content of a file. formula: `cat -n ~/Downloads/filename.txt`

Examples: `cat -n ~/Documents/todo.lst`, `cat -n ~/Documents/todo.md`

### tac command

tac command is used for displaying the content of a file in reverse order\* formula: `tac + option _`  
files to display EXAMPLE :`tac todo.md`, `tac ~/Documents/todo.md`

### head command

the head command displays the top N number of lines in a given file. formula: `head + options +`  
files examples: `head ~/Documents/book/dracula.txt`, `head -5`  
`~/Documents/book/dracula.txt`

### tail command

tail command displays the bottom N number of lines in a given file formula: `tail + options +`  
files examples: `tail ~/Documents/book/dracula.txt`, `tail -5`  
`~/Documents/book/dracula.txt`

### cut command

cut command is used to extract a section and display the file to a screen formula: `cut + options +`  
files examples: `cut -d ':' -f1/etc/passwd`, `ls -l | cut -d' ' --complement -s -f1`

### paste command

paste command is used for joining files horizontally in columns formula: `paste + options + files`  
examples: `paste .users.lst ip_address.lst`, `paste -d ':' .users.lst`

### sort command

sort command is used for sorting files formula: `sort + option + files` examples: `sort`  
`users.lst`, `sort -o sorted.lst users.lst`

### wc command

**wc command** is used for printing the number of lines, characters and bytes in a file. **formula:** `wc + options + files` **examples:** `wc -m users.txt, wc -w users.txt`

## tr command

**tr command** is used for translating or deleting characters from standard output **formula:** `tr + option + set + set` **examples:** `cat file.txt | tr '_' ' ' cat file.py | tr "[:space:]" ' '`

## diff command

**diff command** compares files and displays the differences between them **formula:** `diff + option + file1 + file2` **examples:** `diff cars.csv cars-backup.csv, diff -y cars.csv cars-backup.csv`

## grep command

**grep command** is used to search text in given file. **grep works line by line basis** **formula :** `grep + option + search criteria + files` **Example :** `grep 'dracula' ~/Documents/dracula.txt`  
`grep -i 'dracula' ~/Documents/dracula.txt`

## sed command

**sed command** is used for processing and manipulating text **formula:** `sed + option + files` **examples:** `sed 's/pattern/replacement/' file.txt` `sed 's/pizza/rice/' shopping-list.lst` `sed 's/pizza/rice/4' shopping-list.lst` `sed 's/pizza/rice/3g' shopping-list.lst` `sed '3 s/pizza/rice/' shopping-list.lst`

## awk command

**awk command** is a versatile to process files **formula:** `awk -F: '{print $1}' /etc/passwd` `awk -F: '{print toupper($1)}' /etc/passwd` `grep "bash" /etc/passwd | awk -F: 'BEGIN {printf "%s\t%s\n", "User", "Shell"} {print $1, "\t", $7}'` `grep "bash" /etc/passwd | awk -F: 'BEGIN {printf "%s\t%s\n", "User", "Shell"} {print toupper($1), "\t", $7}'`

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