1) grep

grep -c keyword filename	count occurrences of keyword
grep -i keyword filename	ignore case
grep -n keyword filename	matched lines and their numbers
grep -v keyword filename	all the lines that do not match the keyword, invert search
grep -l keyword *	just the file names that match the keyword
grep -w keyword filename	match only the whole word, not substring
grep -o keyword filename	prints only the matched pattern, not the whole substring
grep -A n	prints searched line and n lines after that
grep -B n	prints searched line and n lines before that
grep -C n	prints searched line and n lines before and after that

2) egrep (same as grep -E)
   - OR operator
     egrep "^//|^#" filename starts with // or # (comments in C-languages and .py)
   - Character class expressions
     egrep -i "b[a-e]r" *
   - M to N occurrences {m,n}
     egrep -w "[0-9]{1,3}" *
   - Exact M occurrences {m}
   - M or more occurrences {m,}
3) sort and uniq

sort filename	
sort -R filename	
sort -k3 filename	sort by the third field
sort -n filename	sort numerically
sort -M filename	sort by months
sort filename | uniq	only adjacent duplicate lines
sort filename | uniq -c	display the count number
sort filename | uniq -d	only duplicates
sort filename | uniq -u	only unique lines
sort filename | uniq -i	ignore case

4) wc

wc filename	new lines, word count and byte count
wc -l filename	only number of lines
wc -w filename	only word count
wc -c filename	only byte count

5) Compare files
   - diff (line by line)
   - cmp (byte by byte)

6) Compress

tar command archives multiple files into a single file
gzip command reduces the size of the file using Lempel-Ziv coding
gunzip command will decompress the file

tar -cvf py_files.tar *.py	archive all python files into py_files.tar file
gzip py_files.tar	compress py_files.tar into py_files.tar.gz
gunzip py_files.tar.gz	decompress it into py_files.tar
tar -xvf py_files.tar	unarchive py_files.tar

7) Truncate files

Truncate -s 10 filename	reduce or increase the file size into 10 bytes