1. Multiple patterns and actions:

awk '/up/{print "UP: " NF, $0} /down/{print "DOWN: ", NF, $0} ' dukeofyork.txt

1. Specify regular expression as a field separator:  
   awk -F '[,!]' '{print NR,$2}'

1. Record and field separators:

awk 'BEGIN{FS=","; RS="!"}{print $3}' onebigline.txt

three

six

nine

twelve

1. awk 'BEGIN{RS=""; FS="\n"} {name=$1; address=$2; statezip=$3}{print name", " address ", " statezip}' multiaddress.txt

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OUTPUT FIELD SEPARATORS AND OUTPUT RECORD SEPARATORS

1. awk 'BEGIN{FS=","; OFS="\t"} {print $1, $2, $3} ' nameemailavg.csv

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OR

awk -F, '{print $1 "\t" $2 "\t" $3}' nameemailavg.csv

REGULAR EXPRESSIONS:

1. awk '$4 ~ /up/{print $0}' dukeofyork.txt  : 4th field contains regular expression pattern /up/

He marched them up to the top of the hill

They were neither up nor down

B) awk '$3 ~ /the/{print}' dukeofyork.txt  : 3rd field matches /the/

He marched them up to the top of the hill

And when they were up they were up

And when they were down they were down

And when they were only half-way up

They were neither up nor down

1. awk '$3 ~ /^the/{print}' dukeofyork.txt  : 3rd field begins with /the/

He marched them up to the top of the hill

And when they were up they were up

And when they were down they were down

And when they were only half-way up

D) awk '/a[a-zA-Z]\*c/{print $0}' : Match 0 or more occurrences of the char set pattern in between i.e [a-zA-Z]\*:

abbddbBc

abbddbBc

abbbbbdssbbC

abHFYEHSHc

abHFYEHSHc

1. awk '/a[a-zA-Z]{3}c/{print $0}': Exactly matches 3 occurrences of the pattern [a-zA-Z] in between:

abc

abbc

aABCc

aABCc

aZDbc

aZDbc

1. Grouping characters: awk '/(anish){2}[a-z]c/{print $0}'. : Exactly.2 occurrences of pattern (anish):

anishanishzc

anishanishzc

anishbc

Graphical user interface, text, application

Description automatically generated