1)\* -> it matches zero or more occurances of preceding character

\*->ab\*c

Ac

Abc

Abbc

Abbbbbc

2)+ ->it matches one or more occurrences of preceding character

+ -> ab+c

Ac #

Abc

Abbc

Abbbbbc

3)? ->it matches zero or one occurance of preceding character

? ->ab?c

Ac

Abc

Abbc #

Perl,pearl => pea?rl

Color,colour=>colou?r

4). ->it matches any single character

. -> a.c

Agc

A5c

A$c

A c

Abcd #

5)[] ->it matches any single character in the given list

[xyz…]->b[aeiou]d

Bad

Bed

Bid

Bod

Bud

B8d #

Bpd #

6)[^]->it matches any single character other than in the give list

[^xyz…]->b[^aeiou]d

Bad #

Bed #

Bid #

Bod #

Bud #

B8d

Bpd

7) [-]->it matches any single character in the given range

z[a-e]y

xay

xby

xcy

xdy

xey

xfy #

xpy #

[0-9]->any single digit

[a-z]->any one lowercase alphabet

[A-Z]->any one uppercase alphabet

[a-zA-Z]->any one alphabet

[a-zA-Z0-9\_]->any one alphanumeric

[^0-9]->any single non digit

[^a-z]->any one non lowercase alphabet

[^A-Z]->any one non uppercase alphabet

[^a-zA-Z]->any one non alphabet

[^a-zA-Z0-9\_]->any one non alphanumeric(special characters)

8)(|)->match any one string in the list

(java|hadoop|python)

9) {m}->it matches exact occurrence of preceding character

Ab{3}c

Abbc #

Abbbc

Abbbbbc #

10) {m,n} -> it matches min m occurrences and max n occurrences of ist preceding character

Ab{3,5}c

Abbc #

Abbbc

Abbbbc

Abbbbbc

Abbbbbbc #

11) {m,}-> it matches min m occurrences and max no limit of its preceding character

Ab{3,}c

Abbc #

Abbbc

Abbbbbbbc

12) ^ ->start of the line

^perl

^[abc]

^[^abc]

13) $ ->end of the line

Perl$

[0-9]$

13) \d or [0-9] ->any single digit

[0-9][0-9][0-9][0-9] or [0-9]{4} or

\d\d\d\d or \d{4}

14) \D or [^0-9] -> any single non digit

15) \w or [a-zA-Z0-9\_] ->any alphanumeric

16) \W or [^a-zA-Z0-9\_]-> any non alphanumeric or special character

17)\s =>’ ‘,’\t’,’\n’

18)\b =>word boundry