Regular Expression

Brackets

Sr.No.	Expression & Description
1	**[...]** Any one character between the brackets.
2	**[^...]** Any one character not between the brackets.
3	**[0-9]** It matches any decimal digit from 0 through 9.
4	**[a-z]** It matches any character from lowercase **a** through lowercase **z**.
5	**[A-Z]** It matches any character from uppercase **A** through uppercase **Z**.
6	**[a-Z]** It matches any character from lowercase **a** through uppercase **Z**.

Quantifiers

Sr.No.	Expression & Description
1	**p+** It matches any string containing one or more p's.
2	**p*** It matches any string containing zero or more p's.
3	**p?** It matches any string containing at most one p.
4	**p{N}** It matches any string containing a sequence of **N** p's
5	**p{2,3}** It matches any string containing a sequence of two or three p's.
6	**p{2, }** It matches any string containing a sequence of at least two p's.
7	**p$** It matches any string with p at the end of it.
8	**^p** It matches any string with p at the beginning of it.

Metacharacters

Sr.No.	Character & Description

By : Urvashi Halpati (Tops Technology Faculty – Surat)

1	.	a single character
2	\s	a whitespace character (space, tab, newline)
3	\S	non-whitespace character
4	\d	a digit (0-9)
5	\D	a non-digit
6	\w	a word character (a-z, A-Z, 0-9, _)
7	\W	a non-word character
8	[\b]	a literal backspace (special case).
9	[aeiou]	matches a single character in the given set
10	[^aeiou]	matches a single character outside the given set
11	(foo|bar|baz) matches any of the alternatives specified	

RegExp	Description
`[abc]`	Matches any one of the characters a, b, or c.
`[^abc]`	Matches any one character other than a, b, or c.
`[a-z]`	Matches any one character from lowercase a to lowercase z.
`[A-Z]`	Matches any one character from uppercase a to uppercase z.
`[a-Z]`	Matches any one character from lowercase a to uppercase Z.
`[0-9]`	Matches a single digit between 0 and 9.
`[a-z0-9]`	Matches a single character between a and z or between 0 and 9.

Predefine character classes

RegExp	Description
.	Matches any single character except newline `\n`.
\d	matches any digit character. Same as `[0-9]`
\D	Matches any non-digit character. Same as `[^0-9]`

By : Urvashi Halpati (Tops Technology Faculty – Surat)

\s	Matches any whitespace character (space, tab, newline or carriage return character). Same as `[ \t\n\r]`
\S	Matches any non-whitespace character. Same as `[^ \t\n\r]`
\w	Matches any word character (definned as a to z, A to Z,0 to 9, and the underscore). Same as `[a-zA-Z_0-9]`
\W	Matches any non-word character. Same as `[^a-zA-Z_0-9]`

RegExp	Description
^p	Matches the letter p at the beginning of a line.
p$	Matches the letter p at the end of a line.