Regular Expression and wild card characters

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Regular Expression and wild card characters

-> If we want to represent group of characters for particular pattern
   then we shoud go with regular expression

-> To build a regular expression we need to take help of wild card characters

-> A wild card characters can be used as a substitue for required sequence of
   characters in the regular expression
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-> Some wild card characters are as below

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1)  * represent zero or more characters.
2)  ? represent only one character
3)  [] represent of range of character
4)  [abc] represent either a or b or c
5)  [123] represent either 1 or 2 or 3
6)  [!abc] Any character excpet a c and c
7)  [a-z] any lower case alphabet symbol
8)  [A-Z] any upper case alphabet symbol
9)  [a-zA-Z] Any alphabet symbol
10) [0-9] any digit from 0 to 9
11) [a-zA-Z0-9] any alpha numeric character
12) [!a-zA-Z0-9] excpet alpha numberic character(i.e only special symbol)
13) [[:lower:]] any lower case alphabet symbol
14) [[:upper:]] any upper case alphabet symbol
15) [[:alph:]] Any alphabet symbol
16) [[:digit:]] Any digit from 0 to 9
17) [[:alnum:]] any alpha numeric character
18) [![:digit:]] Any character except digit
19) {} list of files with comma seperated
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Examples

1) list out all files in the current working directory
Ans : ls *

2) list out all files with some exetention
Ans : ls *.*

3) list out all files start with A
Ans : ls A*

4) list out all files start with A and end with t
Ans : ls A*t

5) list out all files with .java extensions
Ans : ls *.java
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6)list out all files where file name contains only 2 characters
Ans: ls ??

7) list out all files where file name start with A and contains
   only two character
Ans: ls A?

8) list out all files where file name contains only 3 character
Ans: ls ???

9) list out all files where file name contains at least 3 characters
Ans: ls ???*

10) list out all files where file name contains either a or b or c
Ans: ls [abc]*

11) list out all files where file name should not start with a,b or c
Ans: ls [!abc]*

12) list out all files where name start with lower case alphabet
Ans: ls [a-z]*

13) list out all files where name start with upper case alphabet
Ans: ls [A-Z]*

14) list out all files where name start with digit
Ans: ls [0-9]* or ls [[:digit:]]*

Note: We can use these wild card characters with following command
like cp, mv rm also