Bash Shell Scripting

Advanced grep command
Part-2

`#!/bin/bash`

Advanced grep command:

- grep command syntax:
    - grep [options] "string/pattern"   file/files
    - Basic options: -i -w -v -o -n -c -A -B -C   -r -l -h
- Advanced Options: **-f -e and –E**
    - **-f**   Takes search string/pattern from a file, one per line
    - **-e**   To search multiple strings/patterns
    - **Pattern is a string and it represents more than one string.**
    - **-E**   To work with patterns
    - **grep -E[options] "pattern"   file/files**

Rules to create patterns:

- xy|pq Matches for xy or pq
- ^xyz   Matches for the lines which are starting with "xyz"
- xyz$ Matches for the lines which are ending with "xyz"
- ^$ Matches for the lines which are empty
- \   To remove the special purpose of any symbol. Ex: \^ \$
- .   Matches any one character
- \.   Matches exactly with .
- \b   Match the empty string at the edge of word
- ?   The preceding character is optional and will be matched, at most, once.
- *   The preceding character will be matched zero or more times
- +   The preceding character will be matched one or more times
- [xyz] Matches for the lines which are having x or y or z
- [a-d] is equal to [abcd]   Matched for the lines which are having a/b/b/d
- [a-ds-z] is eqal to [abcdstuvwxyz]
- ^[abc] Matches for the lines which are starting with a/b/c
- [^abc] Matches for the lines which are not starting with a/b/c
- {N}   The preceding string matched exactly N times
- {N,}   The preceding string matched N or more times
- {N,M}   The preceding string matched at least N times but not more than M times

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Rules to create patterns:

[[:alnum:]]   – Alphanumeric characters.
[[:alpha:]]   – Alphabetic characters
[[:blank:]]   – Blank characters: space and tab.
[[:digit:]]   – Digits: '0 1 2 3 4 5 6 7 8 9'.
[[:lower:]]   – Lower-case letters: 'a b c d e f g h i j k l m n o p q r s t u v w x y z'.
[[:space:]]   – Space characters: tab, newline, vertical tab, form feed, carriage return, and space.
[[:upper:]]   – Upper-case letters: 'A B C D E F G H I J K L M N O P Q R S T U V W X Y Z'.

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Thank you

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BASH
THE BOURNE-AGAIN SHELL

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