

Bash Shell Scripting

Advanced grep command

Part-2

```
#!/bin/bash
```

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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 equal 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