PATTERN MATCHING: Any character that appears in a pattern, other than some special pattern characters, matches itself.

The NULL character may not occur in a pattern. A backstash escapes the following character; the escaping backstash is discarded when matching. The special pattern characters must be quoted if they are to be matched literally.

The special pattern characters have the following meanings:
* :- matches any string, including the mule string.

- ? :- Matches any single character.
- [...] :- Matches any one of the enclosed characters.
 - ? (pattern-list): matches zero vor more occurences of the given spatterns.
- + (pattern-list): Matches one or more occurences of the given patterns.
- @ (pattern-list) :- matches one of the given patterns.
- ! (pattern-list):- Matches anything except one of the given patterns.

WILDCARD CHARACTERS.

Wildcards (also referred to as melta chanacters) are symbols or special characters that represent other characters. These are interpreted by the shell and the results are returned to the command you run.

- ? represents or matches a single occurrence of any character.
- * matches one or more occurences of any character, including no character.
- [] matches any occurrence of character enclosed in the square brackets.

Matching filenames using wildcards:

- i. \$ ls l*
 - This command matches all files with name starting with l.
 - ii. \$1s l?st,sh
 - This command matches all files with names beginning with 'l' followed by any single character and ending with 'st.sh'.
 - iii. \$ 15 l[abdcio]st.sh
 - The command matches all files with names starting with it followed by any of the characters in The square bracket but ending with 'st. sh'.
 - iv. AS [clst][io]? t*:- This command starting with any of these characters '[clst]' followed by one of these '[io]' and then any single character by one of these '[io]' and lastly, one or more occurrence followed by a 't' and lastly, one or more occurrence of any character will be listed.

A metacharacter is any character that has a special meaning, such as a corrat (^) dollar sign(\$), or an arterisk (*). Linux has a fair number of these metacharacters, and their meanings differ depending on which Linux command or program for use.

· Pipe 1: It connects command output as an input to the other command.

Ex:- ps -ef / grep firefox

or more of a character, when.

Ex:- 1s *.flac

· Tilde ~ :- Used to get back to your home directory. Ex ed ~.

Dollar \$:- Match any line or string that ends with a pattern

Ex 1s | grep prig\$

· caret n:- used to denote - the start of a line or a storing. Ex:- 1s - a | grep a growne

-> If It will list the files in a folder that begin with 'gnome'.

full stop(.):- It indicates the current position when running commands such as cd or sh. In applications such as awk, grep, & sed, it's a wildcord that denotes a specific no. of any character.

En:- ps -et 1 grep f..efox

Characters class []:-The character class comprises a set of characters enclosed by the rectangular brackets, [and], but it matches a single character in the class. The pattern [abcd] is a character class, and it matches a single character 'a'. 'b', 'c' or 'd'.

By Is chapter [1-234]

Range specification is also possible inside the class with a - (hyponen); the two characters on either side of it (left have a Lower ASCII value than the one on the right) form the range of characters to be matched ex:- Is chapter [1-4]

Negating character class (!)

Ep:- *.[!co]

Matches all filenames with a single character extension but not the .c or .o files.