

TOPIC NAME : _____

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* $[abc]$ a or b or c

$[^abc]$ any character except a, b, c

$[a-z]$ a to z

$[A-Z]$ A to Z

$[a-zA-Z]$ a to z , A to Z

$[0-9]$ 0 to 9

$[]?$ → $\begin{matrix} \text{आता या भाग 0 or 1 time} \\ \text{occurs} \quad 0 \text{ or } 1 \text{ time} \end{matrix}$

$[]^+$ n 1 or more n

$[]^*$ n 0 or more n

$[]^{\{n\}}$ n n times

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$[] \{ n, \}$ occurs n or more times
 $[] \{ y, z \}$ is at least y time, but less
than z time.

↓
Quantifiers

Regex

meta characters

$\backslash d$

$[0-9]$

$\backslash D$

$[^0-9]$

$\backslash w$

$[a-zA-Z_0-9]$

$\backslash W$

$[^\backslash w]$

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1. \wedge : start with the string

2. $[A-Z]$: matches any upper letter (A to Z)

3. $.$: matches any single character (except newline)

4. $*$: Quantifier that means "zero or more" of any character

5. $\$$: Asserts the position end of string.

* Exm: 1) Mobile number \rightarrow Start With 8 or 9 and total digits = 10.

$[89][0-9]^9$

2) First character upper case, contains, lower case alphabets, only one digit allowed in between: $[A-Z][a-z]^*[0-9][a-z]^*$

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$[a-zA-Z0-9-1-\cdot] + [a-zA-Z] + [\cdot] [a-z]_{2,3}$