Symbol	Meaning
10.00	Matches any character except newline; or any character at all with the $re.DOTALL$ flag; or inside a character class matches a literal .
\d	Matches a Unicode digit; or [0-9] with the re.ASCII flag
\D	Matches a Unicode nondigit; or [^0-9] with the re.ASCII flag
\s	Matches a Unicode whitespace; or [$\t \in \t $
\\$	Matches a Unicode nonwhitespace; or $[^ \t \n\r\f\v]$ with the re.ASCII flag
/W	Matches a Unicode "word" character; or [a-zA-Z0-9_] with the re.ASCII flag
\W	Matches a Unicode non-"word" character; or [^a-zA-Z0-9_] with the re.ASCII flag

Character Class Shorthand's

Syntax	Meaning	
e? or e{0,1}	Greedily match zero or one occurrence of expression e	
e?? or e{0,1}?	Nongreedily match zero or one occurrence of expression e	
e+ or e{1,}	Greedily match one or more occurrences of expression e	
e+? or e{1,}?	Nongreedily match one or more occurrences of expression e	
e* or e{0,}	Greedily match zero or more occurrences of expression e	
e*? or e{0,}?	Nongreedily match zero or more occurrences of expression e	
e{m}	Match exactly m occurrences of expression e	
e{m,}	Greedily match at least m occurrences of expression e	
e{m,}?	Nongreedily match at least m occurrences of expression e	
e{,n}	Greedily match at most n occurrences of expression e	
e{,n}?	Nongreedily match at most n occurrences of expression e	
e{m,n}	Greedily match at least m and at most n occurrences of expression e	
e{m,n}?	Nongreedily match at least m and at most n occurrences of expression e	

Regular Expression Quantifiers

Symbol	Meaning	
^	Matches at the start; also matches after each newline with the re.MULTILINE flag	
\$	Matches at the end; also matches before each newline with the re.MULTILINE flag	
\A	Matches at the start	
\b	Matches at a "word" boundary; influenced by the re.ASCII flag—inside a character class this is the escape for the backspace character	
\B	Matches at a non-"word" boundary; influenced by the re.ASCII flag	
\Z	Matches at the end	
(?=e)	Matches if the expression e matches at this assertion but does not advance over it—called lookahead or positive lookahead	
(?!e)	!e) Matches if the expression e does not match at this assertion and does not advance over it—called negative lookahead	
(?<=e)	Matches if the expression e matches immediately before this assertion—called <i>positive lookbehind</i>	
(? e)</td <td>Matches if the expression e does not match immediately before this assertion—called negative lookbehind</td>	Matches if the expression e does not match immediately before this assertion—called negative lookbehind	

Regular Expression Assertions

	Regular Expression Basics
5	Any character except newline
а	The character a
ab	The string ab
alb	a or b
a*	0 or more a's
V	Escapes a special character

Re	gular Expression Quantifiers
*	0 or more
+	1 or more
?	0 or 1
{2}	Exactly 2
{2, 5}	Between 2 and 5
{2,}	2 or more
(,5)	Up to 5

Regular Expression Groups		
()	Capturing group	
(?P <y>)</y>	Capturing group named Y	
(?:)	Non-capturing group	
W	Match the Y'th captured group	
(?P=Y)	Match the named group Y	
(?#)	Comment	

Regular Expression Character Classes		
[ab-d]	One character of: a, b, c, d	
[^ab-d]	One character except: a, b, c, d	
[\b]	Backspace character	
\d	One digit	
\D	One non-digit	
\s	One whitespace	
IS	One non-whitespace	
\w	One word character	
\W	One non-word character	

Re	gular Expression Assertions
۸	Start of string
VA.	Start of string, ignores m flag
\$	End of string
VZ	End of string, ignores m flag
\b	Word boundary
\B	Non-word boundary
(?=)	Positive lookahead
(?!)	Negative lookahead
(?<=)	Positive lookbehind
(?)</td <td>Negative lookbehind</td>	Negative lookbehind
(?())	Conditional

R	egular Expression Flags
i	Ignore case
m	^ and \$ match start and end of line
s	. matches newline as well
×	Allow spaces and comments
L	Locale character classes
u	Unicode character classes
(?iLmsux)	Set flags within regex

Regular Expression Special Characters		
\n	Newline	
/r	Carriage return	
\t	Tab	
YYY	Octal character YYY	
VYY	Hexadecimal character YY	

Regular Expression Replacement		
\g<0>	Insert entire match	
\g <y></y>	Insert match Y (name or number)	
١Y	Insert group numbered Y	