

amirkhan1092 / regex\_python\_allOne.py Secret

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regex in python (just methods)

 regex\_python\_allOne.py

Raw

```
1 import re
2 '''
3 Regular Expression is a sequence of characters that forms a search pattern in a String.
4 In another words this is scheme for Advance Search operation on string.
5
6 The "re" package provides several methods to actually perform queries on an input string
7 1. re.search() : Returns a Match object if there is a match anywhere in the string
8 2. re.match() : returns a match object on success, None on failure
9 3. re.findall() : Returns a list containing all matches
10 4. re.sub() : Replaces one or many matches with a string
11 5. re.split() : Returns a list where the string has been split at each match
12 6. re.compile() : We can combine a regular expression pattern into pattern objects,
13 which can be used for pattern matching.
14 It also helps to search a pattern again without rewriting it'''
15
16 # Python has a built-in package called re, which can be used to work with Regular Expressions.
17 # Import the re module:
18 import re
19
20
21 # 1. search() : Returns a Match object if there is a match anywhere in the string
22 st = 'python is the best language'
23 res = re.search('python', st)
24 print(res) # <re.Match object; span=(0, 6), match='python'>
25
26 res = re.search('is the', st)
27 print(res) # <re.Match object; span=(7, 13), match='is the'>
28
29 res = re.search('best is', st)
30 print(res) # None
31
32 # meta characters
33 res = re.search('(.*)is the', st)
34 print(res) # <re.Match object; span=(0, 13), match='python is the'>
35
36 res = re.search('P|python', st)
37 print(res) # <re.Match object; span=(0, 6), match='python'>
38
39 print(res.start()) # start s=index
40 print(res.end()) # end index
41 print(res.span()) # tuple of start and end index of searched pattern
42 print(res.group()) # return match pattern string if there is no groups in expression
43 print(res.groups()) # return if groups found
44
45
46 # match() : to found the matching of the string pattern
47 import re
48 st = 'Python is the best language'
49
50 res = re.match('python', st) # exact match at startswith
51 print(res) # None
52
53 res = re.match('Python', st)
54 print(res) # <re.Match object; span=(0, 6), match='Python'>
55
56 res = re.match('best', st)
57 print(res) # None
58
59 res = re.match('.*best', st)
60 print(res) # <re.Match object; span=(0, 18), match='Python is the best'>
61
62 res = re.match('p|Python', st)
63 print(res) # <re.Match object; span=(0, 6), match='Python'>
64
65 --
```

```

65
66
67 # findall() : Returns a list containing all matches
68 import re
69 st = 'python is the best language'
70
71 res = re.findall('python', st)
72 print(res) # ['python']
73
74 res = re.findall('pattern', st)
75 print(res) # []
76
77 res = re.findall('.*best', st)
78 print(res) # ['python is the best']
79
80 res = re.findall('(.*)(best)', st)
81 print(res) # [('python is the ', 'best')]
82
83
84
85 # sub() : The sub() function replaces the matches with the text of your choice
86 import re
87 st = "20 students with score 8.5CPI"
88
89 res = re.sub('CPI', 'CGPA', st)
90 print(res) # 20 students with score 8.5CGPA
91
92 # Remove anything other than digits
93 res = re.sub(r'\D', "", st)
94 print(res) # 2085
95
96 # remove all digits
97 res = re.sub(r'\d', "", st)
98 print(res) # students with score .CPI
99
100 res = re.sub(r'\s', '5', st)
101 print(res) # 205students5with5score58.5CPI
102
103
104
105 # split() : Returns a list where the string has been split at each match
106
107 import re
108
109 st = ' python is the best language'
110
111 res = re.split(r'\s', st)
112 print(res) # ['', 'python', 'is', 'the', 'best', 'language']
113
114 res = re.split(r'\s', st, 2)
115 print(res) # ['', 'python', 'is the best language']
116
117
118 # compile() : Combine a regular expression pattern into pattern objects
119 import re
120 st = 'python is the best language'
121
122 comp = re.compile('best')
123
124 print(comp.search(st)) # <re.Match object; span=(14, 18), match='best'>
125 print(comp.match(st)) # None
126 print(comp.sub('most', st)) # python is the most language
127 print(comp.split(st)) # ['python is the ', ' language']
128 print(comp.findall(st)) # ['best']

```



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