

Chitra G M and P Rama Devi
Department of Computer Science Engineering



P Rama Devi

Department of Computer Science and Engineering

PYTHON ADVANCED PROGRAMMING Multiple Matches



Search() is used to look for single instances of literal text strings. The findall() function returns all substrings of the input that match the pattern without overlapping.

```
import re
text = 'abbaaabbbbaaaaa'
pattern = 'ab'
for match in re.findall(pattern, text):
    print('Found',match)
```

Output: Found 'ab'

Found 'ab'



finditer() returns an iterator that produces Match instances instead of the strings returned by findall().

```
import re
text = 'abbaaabbbbaaaaa'
pattern = 'ab'
for match in re.finditer(pattern, text):
    s = match.start()
    e = match.end()
    print 'Found (text[s:e], s, e)
```

Output:

0:2

5:7



Raw String: String prefixed with r. Tells not to handle backslashes in any special way.

Sample example:

print('\ttab')

Output: tab

print(r'\ttab')

Output:\ttab



Regarding '.':

pattern=re.compile(r'.')

Matches almost every thing except new line character

If you want print only '.' then

pattern=re.compile(r'\.')

Output will match only '.' character

Example:

pattern=re.compile(r'rama\.com')

Output can be rama.com



Lets have our text as Ha HaHa

Example: match all Ha's

pattern=re.compile(r'\bHa')

\b - word boundary

Output will be words of Ha but does not include last Ha since it is not a word boundary. A word boundary will be start with a line word or a word followed by a space

So if we want only the last Ha which is not a word boundary we use \B

Ex: pattern=re.compile(r'\BHa')

Last Ha can be printed as output



Let sentence='start of a sentence and end'

- ^ Begin of string
- \$ end of string

pattern=re.compile(r'^start')

Output will be given as start is at the begining

pattern=re.compile(r'^a')

Output will not be a match since a is not at begining

pattern=re.compile(r'end\$')
Output will be given as the text end is at the last

pattern=re.compile(r'a\$')

Output will not be a match since it is not end



Meta characters can be used for various use cases like matching phone numbers

ex. 080-12312

To match above we can use

pattern=re.compile(r'\d\d\d\d\d\d\d\d')



THANK YOU

Chitra G M and P Rama Devi Department of CSE

pramadevi@pes.edu chitragm@pes.edu