

```
Example
                                                    RE functions
import re
 mysent = input('Gimme_a_sentence!\n')
 newstr = re.sub('[A-Z]', 'XX', mysent)
 print(newstr)
                             ←□ → ←□ → ←□ → □ → へ○
Example
                                                    RE functions
import re
 mysent = '_a_rose_is_a_rose_is_a_rose'
 allstr = re.search('(".")', mysent)
 print(allstr.group(1))
 allstr = re.findall('(_.._)', mysent)
 print(allstr)
                              ←□ ト ←団 ト ← 豆 ト ・豆 ・ りへで
```

Pattern Objects

Module

The functions compile, search, and match return a pattern object. The objects contain information about the pattern itself and for the matching functions also information about the matched segments in the string.

```
import re
```

```
phoneNums = re.compile('^\((?\d{3}[-_])\d{3}[_-]\d{4}$')
myphone = input('Give_me_a_phone_number:_')
if phoneNums.search(myphone):
    print('format_correct')
else:
    print('format_incorrect')
```

←□ → ←□ → ← □ → □ → ○ へ ○

Regular Expressions Python

RE Module

RE functions