# EXTRAS

PYTHON

PYTHON

# MAP

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```
myList = range(10)

def addTwo(n):
    return n+2

newList = map(addTwo,myList)

newList2 = map(lambda x: x+3,myList)
```

PYTHON

# FILTER


```
myList = range(10)

def checkIfOdd(n):
    return n%2

newList = filter(checkIfOdd,myList)
```

PYTHON

# REGEXP

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Load regexp module

```
import re
```

Compile RE-expression

```
p = re.compile("hi")
```

Pattern matching:

```
p.match()          Matches RE the beginning of string
p.search()         Scan the entire input for RE
p.findall()        Get substrings that matches RE. (list)
p.finditer()       Get substrings that matches RE. (iterator)
```

# REGEXP



Pattern matching example 1:

```
import re

p = re.compile('TH')

if p.match('This is my input'):
    print "match"
else:
    print "no match"
```

# REGEXP



Pattern matching example 2:

```
import re

p = re.compile('TH',re.IGNORECASE)

if p.match('This is my input'):
    print "match"
else:
    print "no match"
```

# REGEXP



Pattern substitutions:

```
p.split()          Split on RE pattern (list)
p.sub()            Find RE and replace with new string
p.subn()           Same as sub but also returns numbers of subs
```

# REGEXP



Pattern substitution example 1:

```
import re

p = re.compile('(is|no)',re.IGNORECASE)

print p.sub('IS NOT','This is my input')

>>> ThIS NOT IS NOT my input
```

# PYTHON REGEXP

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There is a good ”Regular Expression HOWTO” on www.python.org

Documentation » Python HOWTOs » Regular Expression HOWTO