Exercises

Resource Name: The Quick Python Book 3rd Edition

Chapter: #9

Step: #3

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```
def number(*params):
    for i in reversed(params):
        print(i)
number(114,115,116)
```

1) We can use no return stuff.
2) Use the specific value

1) All of the changes will be saved.
2) + and – (append and remove methods)
3) Not using mutable types for these parameters.

1) x won't change.
2) The gobal variable x will be 2.

QUICK CHECK: GENERATOR FUNCTIONS

```python
def four(limit):
    x = 0
    while x < limit:
        print("in generator, x =", x)
        yield x
        x += 1

for i in four(4):
    print(i)
```

```python
def four(start, limit):
    x = start
    while x < limit:
        print('in generator, x =', x)
        yield x
        x += 1

for i in four(1, 4):
    print(i)
```

TRY THIS: DECORATORS

```python
def dec(my_func):
    def my_func1(*args):

        def my_func2(*args):
                value = my_func(*args)
                return "<html>{}<html>".format(value)

        return my_func2(*args)
        return my_func1

@dec
def myfunction(param):
    return param

print(myfunction('hello'))
```

LAB 9: USEFUL FUNCTIONS

```python
punctuations = str.maketrans("", "", "!.,:;-?")

def clean_line(line):

    cl = line.lower()

cl = cl.translate(punctuations)
    return cl

def my_word(line):
    words = line.split()
    return '\n'.join(words) + '\n'

with open('moby_01.txt') as file_1, open('moby_01_clean.txt', 'w')
   as file_2:
    for line in file_1:
        cl = line_removed(line)

        cw = my_word(cl)

        file_2.write(cw)

def count_3(words):
    count_1 = {}
    for word in moby_words:

        count = word_count.setdefault(word, 0)

        count_1[word] += 1

    return count_1

def temp(count_1):
    list_1 = list(count_1.items())
    list_1.sort(key = lambda x: x[1])
    least_common = list_1[:5]
    most_common = list_1[-1:-6:-1]
    return most_common, least_common
```

```python
moby_words = []
with open('moby_01_clean.txt') as file_1:
    for word in file_1:
        if word.strip():
            moby_words.append(word.strip())

count_1 = count_3(moby_words)

mc, lc = temp(count_1)
print('The most common words are:')

for word in mc:
    print(word)
print('The least common words are:')

for word in lc:
    print(word)
```