Генераторы

```
In [1]:
         def even_range(start, end):
             current = start
             while current < end:</pre>
                 yield current
                 current += 2
In [2]:
         for number in even_range(0, 10):
             print(number)
        0
         2
         6
         8
In [3]:
         ranger = even_range(0, 4)
In [4]:
         next(ranger)
Out[4]: 0
In [5]:
         next(ranger)
Out[5]: 2
In [6]:
         next(ranger)
         StopIteration
                                                    Traceback (most recent call last)
         <ipython-input-6-9065b0f81b55> in <module>()
         ----> 1 next(ranger)
        StopIteration:
In [7]:
         def list_generator(list_obj):
             for item in list_obj:
                 yield item
                 print('After yielding {}'.format(item))
         generator = list_generator([1, 2])
In [8]:
         next(generator)
Out[8]: 1
In [9]:
         next(generator)
        After yielding 1
Out[9]: 2
```

```
In [10]:
          next(generator)
         After yielding 2
         StopIteration
                                                    Traceback (most recent call last)
          <ipython-input-10-1d0a8ea12077> in <module>()
          ---> 1 next(generator)
         StopIteration:
In [11]:
          def fibonacci(number):
              a = b = 1
              for _ in range(number):
                  yield a
                  a, b = b, a + b
In [12]:
          for num in fibonacci(10):
              print(num)
         1
          1
          2
          3
          5
         8
         13
          21
          34
          55
In [13]:
          def accumulator():
              total = 0
              while True:
                  value = yield total
                  print('Got: {}'.format(value))
                  if not value: break
                  total += value
          generator = accumulator()
In [14]:
          next(generator)
Out[14]: 0
In [15]:
          print('Accumulated: {}'.format(generator.send(1)))
         Got: 1
         Accumulated: 1
In [16]:
          print('Accumulated: {}'.format(generator.send(1)))
         Got: 1
         Accumulated: 2
```