**42 – enumerate**

**enumerate**(*iterable*, *start=0*)

Return an **enumerate object**. *iterable* must be a sequence, an [iterator](https://docs.python.org/3/glossary.html#term-iterator), or some other object which supports iteration. The [\_\_next\_\_()](https://docs.python.org/3/library/stdtypes.html#iterator.__next__) method of the iterator returned by [enumerate()](https://docs.python.org/3/library/functions.html#enumerate) returns a **tuple** containing a count (from *start* which defaults to 0) and the values obtained from iterating over *iterable*.

>>>

**>>>** seasons = ['Spring', 'Summer', 'Fall', 'Winter']

**>>>** list(enumerate(seasons))

[(0, 'Spring'), (1, 'Summer'), (2, 'Fall'), (3, 'Winter')]

**>>>** list(enumerate(seasons, start=1))

[(1, 'Spring'), (2, 'Summer'), (3, 'Fall'), (4, 'Winter')]

Equivalent to:

**def** enumerate(sequence, start=0):

n = start

**for** elem **in** sequence:

**yield** n, elem

n += 1



