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In [1]: # https://github.com/30-seconds/30 seconds of knowledge
 In [2]: # ---01---
 In [3]: s = "programming is awesome"
         s.title()
 Out[3]: 'Programming Is Awesome'
 In [4]: | # ---02---
 In [5]: from math import ceil
         def chunk(lst, size):
             return list(map(lambda x: lst[x*size:x*size+size], list(range(0,ceil(len(lst)/size)))))
 In [6]: chunk([1,2,3,4,5], 2)
 Out[6]: [[1, 2], [3, 4], [5]]
 In [7]: chunk([1,2,3,4,5], 3)
 Out[7]: [[1, 2, 3], [4, 5]]
 In [8]: # ---03---
 In [9]: array = [["a","b"], ["c","d"], ["e","f"]]
         list(zip(*array))
 Out[9]: [('a', 'c', 'e'), ('b', 'd', 'f')]
In [10]: | # ---04---
In [11]: def add(x1, x2):
             return x1 + x2
         def subtract(x1, x2):
             return x1 - x2
In [12]: a, b = 4, 5
         (subtract if a > b else add)(a, b)
Out[12]: 9
In [13]: a, b = 5, 4
         (subtract if a > b else add)(a, b)
Out[13]: 1
In [14]: # ---05---
In [15]: def merge_two_dicts(a, b):
             c = a.copy()
             c.update(b)
             return c
         a = \{ "x": 1, "y": 2 \}
         b = \{ "y": 3, "z": 4 \}
         merge_two_dicts(a, b)
Out[15]: {'x': 1, 'y': 3, 'z': 4}
In [16]: # ---06---
In [17]: def merge_dictionaries(a, b):
           return {**a, **b}
         a = \{ x^2 : 1, y^2 : 2 \}
         b = \{"y": 3, "z": 4\}
         merge dictionaries(a, b)
Out[17]: {'x': 1, 'y': 3, 'z': 4}
In [18]: # ---07---
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In [19]: import operator
         action = {
             "+": operator.add,
             "-": operator.sub,
             "/": operator.truediv,
             "*": operator.mul,
             "**": pow
         action["-"](50, 25)
Out[19]: 25
In [20]: # ---08---
In [21]: def spread(arg):
             ret = []
             for i in arg:
                 if isinstance(i, list):
                     ret.extend(i)
                 else:
                     ret.append(i)
             return ret
         x = [1,2,3,[4,5,6],[7],8,9]
         x, spread(x)
Out[21]: ([1, 2, 3, [4, 5, 6], [7], 8, 9], [1, 2, 3, 4, 5, 6, 7, 8, 9])
In [22]: # ---09---
In [23]: d = {"a": 1,"b": 2}
         d.get("a"),d.get("a",3), d.get("c"),d.get("c",3)
Out[23]: (1, 1, None, 3)
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