

Module	Description	Example	Script
core	dictionary, adding a new entry	<code>co['po'] = 'CO'</code>	g05/demo.py
core	dictionary, creating	<code>co = {'name':'Colorado', 'capital':'Denver'}</code>	g05/demo.py
core	dictionary, length of	<code>n = len(to_nato)</code>	g05/nato.py
core	dictionary, looking up a value	<code>name = ny['name']</code>	g05/demo.py
core	dictionary, making a list of	<code>list1 = [co,ny]</code>	g05/demo.py
core	dictionary, obtaining a list of keys	<code>names = super_dict.keys()</code>	g05/demo.py
core	file, closing	<code>fh.close()</code>	g02/demo.py
core	file, opening for reading	<code>fh = open('states.csv')</code>	g05/demo.py
core	file, opening for writing	<code>fh = open(filename,"w")</code>	g02/demo.py
core	file, output using print	<code>print("It was written during",year,file=fh)</code>	g02/demo.py
core	file, output using write	<code>fh.write("Where was this file was written?\n")</code>	g02/demo.py
core	file, reading one line at a time	<code>for line in fh:</code>	g05/demo.py
core	for, looping through a list	<code>for n in a_list:</code>	g04/demo.py
core	function, calling	<code>d1_ssq = sumsq(d1)</code>	g06/demo.py
core	function, defining	<code>def sumsq(values):</code>	g06/demo.py
core	function, returning a result	<code>return values</code>	g06/demo.py
core	list, appending an element	<code>a_list.append("four")</code>	g03/demo.py
core	list, create via comprehension	<code>cubes = [n**3 for n in a_list]</code>	g04/demo.py
core	list, creating	<code>a_list = ["zero","one","two","three"]</code>	g03/demo.py
core	list, determining length	<code>n = len(b_list)</code>	g03/demo.py
core	list, extending with another list	<code>a_list.extend(a_more)</code>	g03/demo.py
core	list, generating a sequence	<code>b_list = range(1,6)</code>	g04/demo.py
core	list, joining with spaces	<code>a_string = " ".join(a_list)</code>	g03/demo.py
core	list, selecting an element	<code>print(a_list[0])</code>	g03/demo.py
core	list, selecting elements 0 to 3	<code>print(a_list[:4])</code>	g03/demo.py
core	list, selecting elements 1 to 2	<code>print(a_list[1:3])</code>	g03/demo.py
core	list, selecting elements 1 to the end	<code>print(a_list[1:])</code>	g03/demo.py
core	list, selecting last 3 elements	<code>print(a_list[-3:])</code>	g03/demo.py
core	list, selecting the last element	<code>print(a_list[-1])</code>	g03/demo.py
core	list, sorting	<code>c_sort = sorted(b_list)</code>	g03/demo.py
core	list, splitting on whitespace	<code>b_list = b_string.split()</code>	g03/demo.py
core	math, raising a number to a power	<code>a_cubes.append(n**3)</code>	g04/demo.py

Module	Description	Example	Script
core	math, rounding a number	<code>rounded = round(ratio,2)</code>	g05/demo.py
core	string, concatenating	<code>name = s1+" "+s2+" "+s3</code>	g02/demo.py
core	string, convert to lower case	<code>line = line.lower()</code>	g05/nato.py
core	string, converting to an int	<code>values.append(int(line))</code>	g06/demo.py
core	string, creating	<code>filename = "demo.txt"</code>	g02/demo.py
core	string, including a newline character	<code>fh.write(name+"!\n")</code>	g02/demo.py
core	string, printing	<code>print("Hello, World!")</code>	g02/hello1.py
core	string, remove spaces	<code>line = line.strip()</code>	g05/nato.py
core	string, splitting on white space	<code>parts = line.split(',')</code>	g05/demo.py
core	string, stripping blank space	<code>clean = [item.strip() for item in parts]</code>	g05/demo.py
json	importing the module	<code>import json</code>	g05/demo.py
json	using to print an object nicely	<code>print(json.dumps(list1,indent=4))</code>	g05/demo.py