Challenges 1-3

# ChallengesDictionary.py

#

# @ author: A. N. Other

# date: September 2016

states = {

    "Oregon": "OR",

    "Florida": "FL",

    "California": "CA",

    "New York": "NY",

    "Michigan": "MI"

}

states["WY"] = "Wyoming"

more\_states = {

    "Alabama": "AL",

    "Alaska": "AK"

}

print(states)

states.update(more\_states)

print(states)

'''

# assertion output should be

print("{'Florida': 'FL', 'WY': 'Wyoming', 'California': 'CA', 'New York': 'NY', 'Oregon': 'OR', 'Michigan': 'MI'}\n")

print("{'Florida': 'FL', 'WY': 'Wyoming', 'Alabama': 'AL', 'California': 'CA', 'Alaska': 'AK', 'New York': 'NY', 'Oregon': 'OR', 'Michigan': 'MI'}\n")

'''

Challenge 4

# Summing Dictionary Values

#

#

# date: November 2016

print('\nSumming dictionary values')

#initialise dictionary 1

city\_dict1 = {'AKL':1495, 'CHC':389.7, 'DUD':118.5, 'WLG':405}

print('\nCity Dictionary 1:',city\_dict1)

#sum values in the dictionary

sum = 0

for popn in city\_dict1.values():

    sum += popn

print('\nTotal population in the major cities (in thousands):')

print(sum)

'''

# assertion output should be:

Total population in the major cities (in thousands):

2408.2

'''

Challenge 5

# Deleting Dictionary Entry

#

#

# date: November 2016

print('\nDeleting entry from a dictionary')

#initialise dictionary 1 and 2

city\_dict1 = {'AKL':'Auckland', 'CHC':'Christchurch', 'DUD':'Dunedin', 'WLG':'Wellington'}

print('\nCity Dictionary 1:',city\_dict1)

#remove the dictionary entry for Dunedin

del(city\_dict1['DUD'])

print('\nUpdated city Dictionary (Dunedin deleted):')

print(city\_dict1)

'''

# assertion output should be missing the Dunedin entry

'''

Challenge 6

# Deleting entries from a dictionary

# where key length is 2

#

# date: November 2016

#initialise dictionary 1

city\_dict1 = {'AKL':'Auckland', 'CC':'Christchurch', 'DUD':'Dunedin', 'WLG':'Wellington', 'AUK':'Auckland'}

print('\nCity Dictionary 1:',city\_dict1)

indexes\_to\_delete = []

print('\nDeleting entries from dictionary where key length is 2')

for val in city\_dict1.keys():

    if len(val)==2:

        indexes\_to\_delete.append(val)

for items in indexes\_to\_delete:

    del(city\_dict1[items])

print('\nCity Dictionary 1:', city\_dict1)

'''

# assertion: output should be missing the Christchurch entry

'''