# client\_test.py

import unittest

from client import getDataPoint, getRatio

class TestClientMethods(unittest.TestCase):

def test\_getDataPoint(self):

quotes = [

{'stock': 'ABC', 'top\_bid': {'price': 120.0}, 'top\_ask': {'price': 121.0}},

{'stock': 'XYZ', 'top\_bid': {'price': 110.0}, 'top\_ask': {'price': 112.0}}

]

for quote in quotes:

dataPoint = getDataPoint(quote)

expected\_data = (quote['stock'], quote['top\_bid']['price'], quote['top\_ask']['price'], (quote['top\_bid']['price'] + quote['top\_ask']['price']) / 2)

self.assertEqual(dataPoint, expected\_data)

def test\_getRatio(self):

price\_a = 120.0

price\_b = 60.0

ratio = getRatio(price\_a, price\_b)

self.assertEqual(ratio, price\_a / price\_b)

price\_a = 100.0

price\_b = 0.0

ratio = getRatio(price\_a, price\_b)

self.assertEqual(ratio, None)

if \_\_name\_\_ == '\_\_main\_\_':

unittest.main()