**Digital Image processing**

**Lab 01**

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**Addition.py**

def add(a, b):

print "Passed a=%s and b=%s, returning a+b=%s" % (a,b,a+b)

return a+b

**BuyLotsOfFruit.py**

fruitPrices = {'apples':2.00, 'oranges': 1.50, 'pears': 1.75,

'limes':0.75, 'strawberries':1.00}

def buyLotsOfFruit(orderList):

"""

orderList: List of (fruit, numPounds) tuples

Returns cost of order

"""

totalCost = 0

for fruit,price in orderList:

if fruit not in fruitPrices:

print "Error couldn't find all prices"

return None

break

else:

totalCost+= fruitPrices[fruit]\*price

return totalCost

# Main Method

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

"This code runs when you invoke the script from the command line"

orderList = [ ('apples', 3.0), ('pears', 3.0), ('limes', 4.0) ]

print 'Cost of', orderList, 'is', buyLotsOfFruit(orderList)

**shopSmart.py**

import shop

def sort(list01):

if( len(list01) <= 1 ):

return list01

array01 = [x for x in list01[1:] if x[1] >= list01[0][1] ]

array02 = [x for x in list01[1:] if x[1] < list01[0][1] ]

return sort(array02) + [ list01[0] ] + sort(array01)

def shopSmart(orderList, fruitShops):

"""

orderList: List of (fruit, numPound) tuples

fruitShops: List of FruitShops

"""

totalAmount = []

for fruitshop in fruitShops:

totalAmount.append((fruitshop,fruitshop.getPriceOfOrder(orderList)))

return sort(totalAmount)[0][0]

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

"This code runs when you invoke the script from the command line"

orders = [('apples',1.0), ('oranges',3.0)]

dir1 = {'apples': 2.0, 'oranges':1.0}

shop1 = shop.FruitShop('shop1',dir1)

dir2 = {'apples': 1.0, 'oranges': 5.0}

shop2 = shop.FruitShop('shop2',dir2)

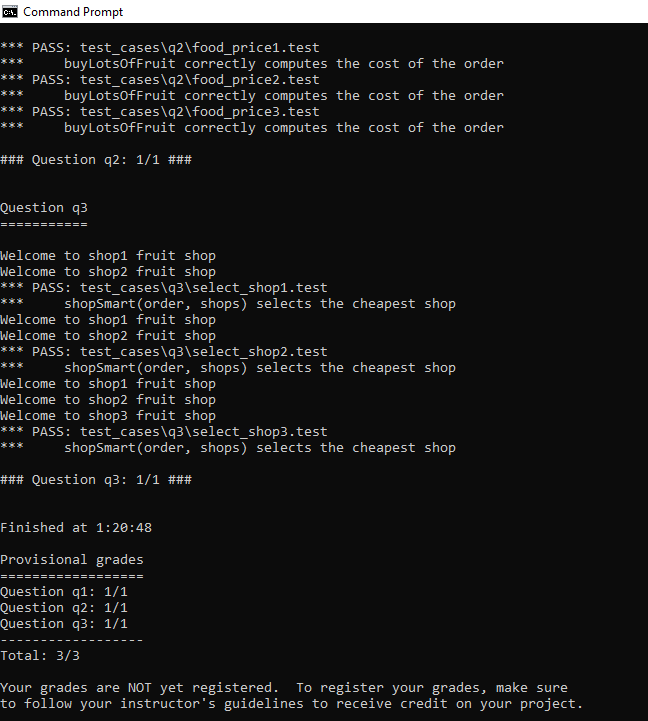
shops = [shop1, shop2]

print "For orders ", orders, ", the best shop is", shopSmart(orders, shops).getName()

orders = [('apples',3.0)]

print "For orders: ", orders, ", the best shop is", shopSmart(orders, shops).getName()

**ScreenShot**

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