Project 0

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1. addition.py

```
def add(a, b):
    "Return the sum of a and b"
    "*** YOUR CODE HERE ***"
    return a + b
```

2. buyLotsOfFruit.py

```
from __future__ import print_function
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 = 0.0
   "*** YOUR CODE HERE ***"
   for fruit in orderList:
       totalCost += fruitPrices[fruit[0]] * fruit[1]
   return totalCost
# Main Method
if __name__ == '__main__':
   "This code runs when you invoke the script from the command line"
   orderList = [('apples', 2.0), ('pears', 3.0), ('limes', 4.0)]
   print('Cost of', orderList, 'is', buyLotsOfFruit(orderList))
```

3. shopSmart.py

```
from __future__ import print_function
import shop
```

```
def shopSmart(orderList, fruitShops):
       orderList: List of (fruit, numPound) tuples
       fruitShops: List of FruitShops
   "*** YOUR CODE HERE ***"
   cheapestShop = min(fruitShops, key = lambda x:
x.getPriceOfOrder(orderList))
   return cheapestShop
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())
```

通过自动测试的截图: