# Department of Computing

# CS370: Artificial Intelligence

# Name: M. Hasnain Naeem

# Class: BSCS-7B

# Lab 1: Introduction to Python

# Date: 23-01-2020

# Time: 10am-01pm & 2pm-5pm

# Instructor: Dr. Dr Imran Malik

**Code Files:**

**Task 1**

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| --- |
| *def* add(a, b):  *"Return the sum of a and b"* print "Passed a=%s and b=%s, returning a+b=%s" % (a, b, a + b)  *return* a+b |

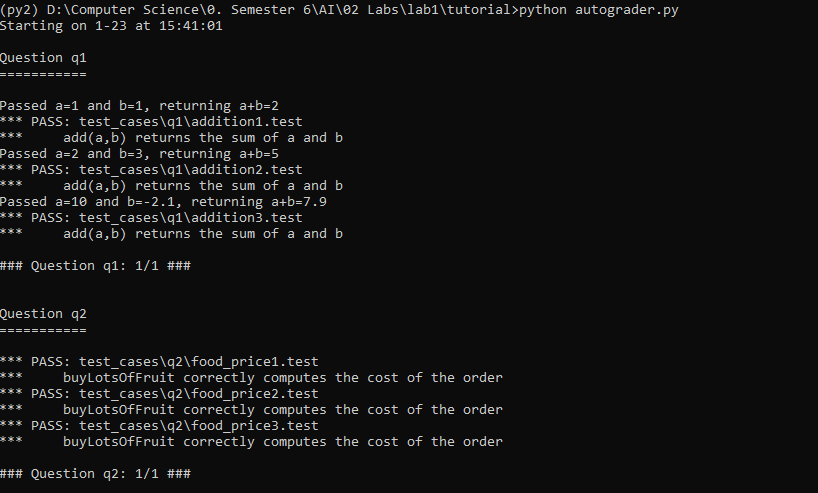
**Task 2**

|  |
| --- |
| *def* buyLotsOfFruit(orderList):  *"""  orderList: List of (fruit, numPounds) tuples   Returns cost of order  """* totalCost = 0.0  *for* fruit, numPounds *in* orderList:  costPerPound = fruitPrices[fruit]  *if* costPerPound *is not None*:  totalCost += numPounds \* costPerPound  *else*:  print(fruit + " is not available.")  *return* totalCost |

**Task 3**

|  |
| --- |
| *def* shopSmart(orderList, fruitShops):  *"""  orderList: List of (fruit, numPound) tuples  fruitShops: List of FruitShops  """* minimumTotalCost = fruitShops[0].getPriceOfOrder(orderList)  fruitShopWithMinimumCost = fruitShops[0]  *for* fruitShop *in* fruitShops:  totalCost = fruitShop.getPriceOfOrder(orderList)   *if* minimumTotalCost > totalCost:  fruitShopWithMinimumCost = fruitShop  minimumTotalCost = totalCost   print fruitShopWithMinimumCost.getName() + " offers the fruits with minimum total cost of : " + str(minimumTotalCost)  *return* fruitShopWithMinimumCost |

**Screenshots**

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