

Assignment 3

Wally World Marketplace point of sale project is the stimulation of check out in a market place.

The submission file sdhojuWWMPOS.zip contains 6 files. 5 python files and 1 readme file.

1. item.py: It is the class of the item to be sold. It has 3 attributes IdTag: int, price:int, and name: str. It is of type generic type ItemType
2. shoppingcart.py. It contains abstract class ShoppingCartABC of type ABC and Generic [ItemType]. It contains 4 abstract methods
3. shopping_cart_list.py: It contains the data class ShoppingCartLis. It has attribute cart: List[Item] and 6 methods. add_item(item), remove_item(item), is_empty, has(item), and cardinality().
4. testWWMPOS.py: It is a test file for the methods. It is checking by adding and removing 3 items.
5. WWMPOS.py: This is the shopping stimulation of market place. For simplicity it has 10 items but can be scale later. It asks user to chose from the items and add it to the cart. They can check out by typing anything other than 0-10. Once they checkout the program calls checkout(cart: ShoppingCartABC[Item]) function which takes the cart as param which is the ShoppingCartList. Once they check out, it prints out a receipt. The output of this file is shown in next page.

Welcome to Wally World Marketplace

Select the item you want to add to Cart or anything else to checkout

- 1.Mango \$2
- 2.Chicken \$10
- 3.Water \$4
- 4.Milk \$2.3
- 5.Coca Cola \$1.5
- 6.Rice \$20
- 7.Egges \$4.3
- 8.Banana \$4.6
- 9.Shrimp \$6.6
- 10.Apple \$0.6

-> 1

Mango added to cart

Select the item you want to add to Cart or anything else to checkout

- 1.Mango \$2
- 2.Chicken \$10
- 3.Water \$4
- 4.Milk \$2.3
- 5.Coca Cola \$1.5
- 6.Rice \$20
- 7.Egges \$4.3
- 8.Banana \$4.6
- 9.Shrimp \$6.6
- 10.Apple \$0.6

-> 2

Chicken added to cart

Select the item you want to add to Cart or anything else to checkout

- 1.Mango \$2

- 2.Chicken \$10
- 3.Water \$4
- 4.Milk \$2.3
- 5.Coca Cola \$1.5
- 6.Rice \$20
- 7.Egges \$4.3
- 8.Banana \$4.6
- 9.Shrimp \$6.6
- 10.Apple \$0.6

-> a

Check out complete. Don't forget to take your receipt with you.

Wally World Marketplace

Chicken (1).....10

Mango (1).....2

Subtotal.....12

Tax.....0.84

Total.....12.84

You are a valued customer. Thank you for shopping with us.