UML Diagram: Abstract Shopping

abstract addItem () abstract sortPriority () abstract displayItem () abstract calculateCost()

Priority SortPrioritySorter

ShoppingList Attributes

itemName itemPrice itemQty itemPriority totalPrice budget moneyLeft **Behavior**

addItem: void sortPriority: void displayItem: void bankAccount: void calculateCost: double

ShoppingItem	ProgException	PrintingOut	ShoppingMainRu
Attributes:	Attributes	displayItem()	nner
itemName	str1: String	: void	addItem();
itemPrice	Behavior	calculateCost	<pre>bankAccount(); sortPriority();</pre>
itemQty	getMessage():	(): double	displayItem();
itemPriority	string		calculateCost();
totalPrice			
Behavior:			
getItemName()			
getItemPrice()			
getItemPriority()			
getItemQty()			
getTotalCost()			
setItemName()			

setItemPrice() setItemPriority()		
setItemQty()		
setTotalCost()		
toString()		

Test Cases

TEST CASE 1

Enter Budget for Shopping: 20
Enter the name of your item apple
Enter the price of your item 4
Enter the priority of your item 3
Enter in the Qty of your item 1
Item Added
You Have This item on Cart.
Item Name - apple
Item Price - \$ 4.0
Item Quantity - 1
Priority - 3
Total Price - 4.0

Enter the name of your item banana
Enter the price of your item 3
Enter the priority of your item 1
Enter in the Qty of your item 3
Item Added You Have This item on Cart. Item Name - apple Item Price - \$ 4.0
Item Quantity - 1
Priority - 3
Total Price - 4.0

You Have This item on Cart. Item Name - banana Item Price - \$ 3.0 Item Quantity - 3 Priority - 1 Total Price - 9.0

Enter the name of your item mango
Enter the price of your item

Enter the priority of your item

1
Enter in the Qty of your item

1
Item Added
You Have This item on Cart.
Item Name - apple
Item Price - \$ 4.0
Item Quantity - 1
Priority - 3
Total Price - 4.0

You Have This item on Cart. Item Name - banana Item Price - \$ 3.0 Item Quantity - 3 Priority - 1 Total Price - 9.0

You Have This item on Cart. Item Name - mango Item Price - \$ 5.0 Item Quantity - 1 Priority - 1 Total Price - 5.0

Enter the name of your item banana shake
Enter the price of your item 2
Enter the priority of your item 4
Enter in the Qty of your item 1
Item Added
You Have This item on Cart.
Item Name - apple
Item Price - \$ 4.0
Item Quantity - 1
Priority - 3

You Have This item on Cart. Item Name - banana Item Price - \$ 3.0 Item Quantity - 3 Priority - 1 Total Price - 9.0

Total Price - 4.0

You Have This item on Cart. Item Name - mango Item Price - \$ 5.0 Item Quantity - 1 Priority - 1 Total Price - 5.0

You Have This item on Cart. Item Name - bananashake Item Price - \$ 2.0 Item Quantity - 1 Priority - 4 Total Price - 2.0

Enter the name of your item toilet paper
Enter the price of your item 5
Enter the priority of your item 3
Enter in the Qty of your item 1
Item Added
You Have This item on Cart.
Item Name - apple
Item Price - \$ 4.0
Item Quantity - 1
Priority - 3
Total Price - 4.0

You Have This item on Cart. Item Name - banana Item Price - \$ 3.0 Item Quantity - 3 Priority - 1 Total Price - 9.0

You Have This item on Cart. Item Name - mango Item Price - \$ 5.0 Item Quantity - 1 Priority - 1 Total Price - 5.0

You Have This item on Cart. Item Name - bananashake Item Price - \$ 2.0 Item Quantity - 1 Priority - 4 Total Price - 2.0

You Have This item on Cart. Item Name - toiletpaper Item Price - \$ 5.0 Item Quantity - 1 Priority - 3 Total Price - 5.0

Enter the name of your item notebook
Enter the price of your item 3
Enter the priority of your item 6
Enter in the Qty of your item 1
Item Added You Have This item on Cart. Item Name - apple Item Price - \$ 4.0
Item Quantity - 1
Priority - 3

Total Price - 4.0

You Have This item on Cart. Item Name - banana Item Price - \$ 3.0 Item Quantity - 3 Priority - 1 Total Price - 9.0

You Have This item on Cart. Item Name - mango Item Price - \$ 5.0 Item Quantity - 1 Priority - 1 Total Price - 5.0

You Have This item on Cart. Item Name - bananashake Item Price - \$ 2.0 Item Quantity - 1 Priority - 4 Total Price - 2.0

You Have This item on Cart. Item Name - toiletpaper Item Price - \$ 5.0 Item Quantity - 1 Priority - 3 Total Price - 5.0

You Have This item on Cart. Item Name - notebook Item Price - \$ 3.0 Item Quantity - 1 Priority - 6 Total Price - 3.0

6 items.
Item Name - banana
Item Price - \$ 3.0
Item Quantity - 3
Priority - 1
Total Price - 9.0

Item Name - mango Item Price - \$ 5.0 Item Quantity - 1 Priority - 1 Total Price - 5.0

Item Name - apple Item Price - \$ 4.0 Item Quantity - 1 Priority - 3 Total Price - 4.0

Item Name - toiletpaper Item Price - \$ 5.0 Item Quantity - 1 Priority - 3 Total Price - 5.0 Item Name - bananashake Item Price - \$ 2.0 Item Quantity - 1 Priority - 4 Total Price - 2.0

Item Name - notebook Item Price - \$ 3.0 Item Quantity - 1 Priority - 6 Total Price - 3.0

Your available money for shopping is: 20.0

Purchased Item: banana

The Money Left in Bank Account is: 11.0

Purchased Item: mango

The Money Left in Bank Account is: 6.0

Purchased Item: apple

The Money Left in Bank Account is: 2.0

Sorry. Not Enough Balance in account. This was not purchased

toiletpaper

Sorry. Not Enough Balance in account. This was not purchased

bananashake

Sorry. Not Enough Balance in account. This was not purchased

notebook

TEST CASE 2

Enter Budget for Shopping:

50

Enter the name of your item

apple

Enter the price of your item

3

Enter the priority of your item

7

Enter in the Qty of your item

1

Item Added

You Have This item on Cart.

Item Name - apple

Item Price - \$ 3.0

Item Quantity - 1

Priority - 7

Total Price - 3.0

Enter the name of your item

apple juice

Enter the price of your item

4

Enter the priority of your item

3

Enter in the Qty of your item

1

Item Added

You Have This item on Cart.

Item Name - apple

Item Price - \$ 3.0

Item Quantity - 1

Priority - 7 Total Price - 3.0

You Have This item on Cart. Item Name - applejuice Item Price - \$ 4.0 Item Quantity - 1 Priority - 3 Total Price - 4.0

Enter the name of your item

mango

Enter the price of your item

-1

Exception Occured: EXCEPTION: Only positive numbers can be entered.

Enter the priority of your item

1

Enter in the Qty of your item

Item Added

You Have This item on Cart.

Item Name - apple

Item Price - \$ 3.0

Item Quantity - 1

Priority - 7

Total Price - 3.0

You Have This item on Cart. Item Name - applejuice Item Price - \$ 4.0 Item Quantity - 1 Priority - 3 Total Price - 4.0

You Have This item on Cart. Item Name - mango Item Price - \$ 0.0 Item Quantity - 1 Priority - 4 Total Price - 0.0

Enter the name of your item banana

Enter the price of your item

5

Enter the priority of your item

6

Enter in the Qty of your item

1

Item Added

You Have This item on Cart.

Item Name - apple

Item Price - \$ 3.0

Item Quantity - 1

Priority - 7

Total Price - 3.0

You Have This item on Cart. Item Name - applejuice Item Price - \$ 4.0 Item Quantity - 1 Priority - 3 Total Price - 4.0

You Have This item on Cart. Item Name - mango Item Price - \$ 0.0 Item Quantity - 1 Priority - 4 Total Price - 0.0

You Have This item on Cart. Item Name - banana Item Price - \$ 5.0 Item Quantity - 1 Priority - 6 Total Price - 5.0

Enter the name of your item book
Enter the price of your item 12
Enter the priority of your item 2
Enter in the Qty of your item 1
Item Added
You Have This item on Cart.
Item Name - apple
Item Price - \$ 3.0
Item Quantity - 1
Priority - 7

You Have This item on Cart. Item Name - applejuice Item Price - \$ 4.0 Item Quantity - 1 Priority - 3 Total Price - 4.0

Total Price - 3.0

You Have This item on Cart. Item Name - mango Item Price - \$ 0.0 Item Quantity - 1 Priority - 4 Total Price - 0.0

You Have This item on Cart. Item Name - banana Item Price - \$ 5.0 Item Quantity - 1 Priority - 6 Total Price - 5.0

You Have This item on Cart. Item Name - book Item Price - \$ 12.0 Item Quantity - 1 Priority - 2 Total Price - 12.0 Enter the name of your item bread
Enter the price of your item 3
Enter the priority of your item 5
Enter in the Qty of your item 1
Item Added
You Have This item on Cart.
Item Name - apple
Item Price - \$ 3.0
Item Quantity - 1
Priority - 7
Total Price - 3.0

You Have This item on Cart. Item Name - applejuice Item Price - \$ 4.0 Item Quantity - 1 Priority - 3 Total Price - 4.0

You Have This item on Cart. Item Name - mango Item Price - \$ 0.0 Item Quantity - 1 Priority - 4 Total Price - 0.0

You Have This item on Cart. Item Name - banana Item Price - \$ 5.0 Item Quantity - 1 Priority - 6 Total Price - 5.0

You Have This item on Cart. Item Name - book Item Price - \$ 12.0 Item Quantity - 1 Priority - 2 Total Price - 12.0

You Have This item on Cart. Item Name - bread Item Price - \$ 3.0 Item Quantity - 1 Priority - 5 Total Price - 3.0

6 items. Item Name - book Item Price - \$ 12.0 Item Quantity - 1 Priority - 2 Total Price - 12.0

Item Name - applejuice Item Price - \$ 4.0 Item Quantity - 1 Priority - 3 Total Price - 4.0

Item Name - mango Item Price - \$ 0.0 Item Quantity - 1 Priority - 4 Total Price - 0.0

Item Name - bread Item Price - \$ 3.0 Item Quantity - 1 Priority - 5 Total Price - 3.0

Item Name - banana Item Price - \$ 5.0 Item Quantity - 1 Priority - 6 Total Price - 5.0

Item Name - apple Item Price - \$ 3.0 Item Quantity - 1 Priority - 7 Total Price - 3.0

Your available money for shopping is: 50.0 Purchased Item: book
The Money Left in Bank Account is: 38.0 Purchased Item: applejuice
The Money Left in Bank Account is: 34.0 Purchased Item: mango
The Money Left in Bank Account is: 34.0 Purchased Item: bread
The Money Left in Bank Account is: 31.0

Purchased Item: banana The Money Left in Bank Account is: 26.0

Purchased Item: apple

The Money Left in Bank Account is: 23.0