

ADT Descriptions

CLASS - ITEM

DATA

name:String - name of item

price:float - price of item

quantity:int - how many of the item there is

weight:int - the weight of the item

SALES_TAX:double - constant for sales tax

PREMIUM_SHIPPING - constant for premium shipping

OPERATIONS

calculatePrice():float - calculates and returns the total price of item with shipping

getName():String - returns the name of the item

getPrice():float - returns the price of the item without tax or shipping

getQuantity():int - returns the number of items in the shopping cart with that name

getWeight():int - returns the weight of the item

setName(String):void - sets the name of the item

setPrice(float):void - sets the price of the item

setQuantity(int):void - sets the number of that item in the shopping cart

setWeight(int):void - sets the weight of the item

printItemAttributes():void - prints the name, price, quantity, and weight of the item

CLASS - GROCERY

DATA

perishable:boolean - whether the item is perishable or not

OPERATIONS

isPerishable():boolean - returns whether the item is perishable or not

calculatePrice():float - calculates price with shipping and tax also adds premium shipping if item is perishable

printItemAttributes():void - prints attributes of the grocery item including whether it is perishable

CLASS - CLOTHING

OPERATIONS

calculatePrice():float - calculates price with shipping and sales tax

CLASS - ELECTRONICS

DATA

fragile:boolean - whether item is fragile or not

salesTax:boolean - whether item is shipping to a state with sales tax or not

OPERATIONS

calculatePrice():float - calculates price with shipping, premium shipping, and sales tax when applicable

isFragile():boolean - returns whether item is fragile

isSalesTax():boolean - returns whether item has sales tax

setFragile(boolean):void - sets whether item is fragile

setSalesTax(boolean):void - sets whether item has sales tax

printItemAttributes():void - prints out name,price,quantity,weight, whether item is fragile, and whether it has sales tax