ITCS 2530 - Final Project Statement of Work Template

Group Number: 5

Group Leader: Nicole Wozniak

Names of Group Members: Kaden Jantz, Md Jehin

Summary of what your program will do (be very specific or you will be asked to do it again):

A baker ordering system, menu opens for a user to select if they wish to add items to cart/order, remove items, check what they already have and check out. Arrays will be different types of items and their prices.

Category	Item 1 (price)	Item 2 (price)	Item 3 (price)
Cookies	Chocolate Chip ($2.50)	Peanut Butter ($3.00)	Snickerdoodle ($3.50)
Cupcakes	Chocolate ($3.00)	Confetti ($3.50)	Red Velvet ($4.00)
Pies	Apple ($5.00)	Pecan ($6.00)	Key Lime ($7.00)

-Main Menu options – Edit Order, View Current Order, Check Out, Exit
-Edit Order Menu – Add to Order, Remove From Order
-Adding to Order Menu – Shows each category of item
-Remove From Order will display the current order with a number or character for the user to input in order to remove it.
-Order/Cart struct for keeping the details of what's been added. This will show the items in the current order/cart, how many of that item, the base cost for those items, the cost with the quantity of the items in the order, and the total cost thus far.

Decomposition with Assignments:

Use the space to list the decomposition or outline of your program. Next to each section, provide the name of the student who will be working on that portion.

What will be done	Who will do it
Main (housing the Menu) – a menu option read out that takes the users input into a switch statement calling all options functions. Function to add all items/prices from a txt file to proper arrays. (writing to file in another section) (Functions: Main, ReadFromFile)	Niki Wozniak
Order/Cart struct for keeping the details of what's been added. This will show the items in the current order/cart, how many of that item, the base cost for those items, the cost with the quantity of the items in the order, and the total cost thus far. (Function: CurrentOrder)	Niki Wozniak
Function to add items to the order. This will have the functionality to both add items and display the items for sale. Example: Selecting the menu option to add and item will display each 'category' (cookies, Pies, Cupcakes), they select which one which will then read out the items in those and their prices. (Function: Edit Order- AddToOrder)	Kaden Jantz
Removing functionality will show what items are in the order already to be removed. Pair this with the function and menu selection to view the items in their order currently. (Function: Edit Order- RemoveFromOrder)	Kaden Jantz
Function to 'check out' showing the total amount due and the items ordered (including the quantity of each item). This will also write out to a txt file with the same data. (Order.txt) This includes nice formatting in the file and console read outs. (Function: Exit, Checkout)	Md jehin

Requirement checklist- (for my own tracking).

At least four functions	EditOrder (leading to AddToOrder/RemoveFromOrder),
	CurrentOrder
	CheckOut
	ReadFromFile
	Main
At least 1 structure defined/used	'Cart' showing the items in the order, the quantity, the item's base cost, the items cost with the quantity in the order, and the total over all cost currently.
Function with a single loop	Adding data from text document to arrays, main menu options.
Function with a nested loop	Write out to console/txt document, editing order and display current order.
Function with using multi-alternative IF structures or switch statements	Menu options on main, selecting sub category of goods.
Function getting prompt from user	Menu, adding/removing from order
Function needs to read from a file	ReadFromFile to add items for sale to proper arrays
Function needs to write to a file	Ending order will write to a new text file (Order.txt).
Comments	As we go