Tyler Forrester
Assignment 1: Test Cases

Assignment1.cpp

Test Case	Input Values	Driver Functions	Expected Outcomes	Observed Outcomes
Input < 1	-1	getChoice()	"The only valid choices are 1-4. Please re-enter. "	"Invalid number, please try again"
Input > 4	5	getChoice()	"The only valid choices are 1-4. Please re-enter. "	The only valid choices are 1-4. Please re-enter.
Input is double or otherwise in valid	5.0, A	InputValid::validateInt getChoice()	"Invalid number, please try again"	"Invalid number, please try again"
Input = 1	1	getChoice()	Generates new Item	Generates new Item
Input = 2	2	getChoice()	Displays List	Displays List
Input = 3	3	getChoice()	DisplaysList then asks user to pick item to be deleted.	DisplaysList then asks user to pick item to be deleted.
Input =4	4	getChoice()	Exits Program.	Exits Program.

UC-2

Test Case	Input Values	Driver Functions	Expected Outcomes	Observed Outcomes
User selects a menu item to create new item	Input = 1	getChoice() List::input()	Generates new Item	Generates new Item
User enters item name	"Banana Pancakes"	addItem.setItemName(valid.validateString())	Set Items Name "Banana Pancakes"	Set Items Name "Banana Pancakes"
User enters invalid item name	"Ban#$%[backspace]"	addItem.setItemName(valid.validateString())	"Invalid String, please try again"	"Invalid String, please try again"
User enters number of units to buy	"5"	addItem.setNumberToBuy(valid.validateInt());	Set numberToBuy	Set numberToBuy
User enter invalid; of units to buy	"3/4"	addItem.setNumberToBuy(valid.validateInt());	"Invalid number please try again"	"Invalid number please try again"
User enters type of units	"lbs"	addItem.setUnit(valid.validateString())	Set type of units	Set type of units
User enters invalid unit	"backspace"	addItem.setUnit(valid.validateString())	"Invalid String, please try again"	"Invalid String, please try again"
User enters Price	"2.00"	addItem.setPrice(valid.validatePrice())	setsPrice	setsPrice
User enters invalid Price	"1.3.3"	addItem.setPrice(valid.validatePrice())	"Invalid Price, please try again"	"Invalid Price, please try again"
User enters c to move to main menu	"c"	continueOn(valid);	Continues to Main Menu	Continues to Main Menu

User presses c to move to main menu	"d"	continueOn(valid);	"Please enter 'c' to continue."	"Please enter 'c' to continue."
Add 5 Items	Add 5 Items	checklist(); Doublelist();	Program continues to operate as normal.	Program continues to operate as normal.
User adds duplicate name	Banana	Input() Duplicate()	Program prompts user to change the number of bananas on shopping list. Bananas are successfully updated	Program prompts user to change the number of bananas on shopping list. Bananas are successfully updated

UC-3

Test Case	Input Values	Driver Functions	Expected Outcomes	Observed Outcomes
User selects a to displayList	Input = 2	getChoice()	Calls Display List	Calls Display List
List Displayed	None	listDisplay()	Prints the current List to Console: Displaying number on list, name, numbertobuy, price, unit and total cost of list.	Prints the current List to Console: Displaying number on list, name, numbertobuy, price, unit and total cost of list.

UC-4

Test Case	Input Values	Driver Functions	Expected Outcomes	Observed Outcomes
User selects a to Delete Item	Input =3	getChoice()	Calls Delete Item	Calls Delete Item
List Displayed	None	listDisplay()	Prints the current List to Console: Displaying number on list, name, numbertobuy, price, unit and total cost of list.	Prints the current List to Console: Displaying number on list, name, numbertobuy, price, unit and total cost of list.
User Selects Number of Item to Del.	Input = 2	`list.deleteItem(valid.validateInt())`	The item in position "" was deleted	The item in position 2 was deleted
User Selects Number of Item to Del.	Input = -1	`list.deleteItem(valid.validateInt())`	"The Item number was not found on the list. Please enter a new number"	"The Item number was not found on the list. Please enter a new number"
List has no Items	None, item array empty	`checkDel()`	"There are no items to delete."	"There are no items to delete."
List selects end Item	Input = 5	`list.deleteItem(valid.validateInt())`	The item in position "" was deleted	The item in position 5 was deleted
List selects > end Item	Input = 6	`list.deleteItem(valid.validateInt())`	The item number was not found on the list. Please enter a new number.	The item number was not found on the list. Please enter a new number.