# CST8130 – Data Structures

# Assignment <1> – Test Plan

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## <Main Menu>

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| * 1. Valid Selection #’s | 1,2,3,4,5,6,7,8 | Call Correct Methods | Pass |
| * 1. Invalid Selection chars | A, a, ! | Displays Error, Re-prompts | Pass |
| * 1. Invalid Selection ! #’s | 6, -1 | Displays Error, must be 1-5, Re-prompt | Pass |
| * 1. Invalid Selection space | “ “, TAB space | Displays Error, Re-prompts | Pass |

## <Item Selection>

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Valid Selection chars | Ff,Vv,pP | Creates object, prompts to addItem() | Pass |
| 1. Invalid Selection #’s | 1, -1 | Displays Error, Re-prompts | Pass |
| 1. Invalid Selection space | “ “, TAB space | Displays Error, Re-prompts | Pass |
| 1. Invalid Selection symb | #, !, ? | Displays Error, Re-prompts | Pass |

## <addItem Details>

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Valid Selection | A,a, 1, 2 | Accepts all valid inputs. Adds item to array | Pass |
| 1. Invalid Selection   Enter Code (char, symbol) | A, a, ! | Displays Error Reprompts | Pass |
| 1. Enter quantity (char symbol, negative) | A, a, -1, !, # | Displays Error Reprompts | Pass |
| 1. Enter cost (char, negative, symbol) | A, a, -1, !, # | Displays Error Reprompts | Pass |
| 1. Enter sales price (char, negative, symbol) | A, a, -1, !, # | Displays Error Reprompts | Pass |
| 1. Enter Jar Size (char negative symbol) | A, a, -1, !, # | Displays Error Reprompts | Pass |

## <Buy Item>

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Valid Selection | 1, 2 | Accepts all valid inputs. Prompts quantity to buy | Pass |
| 1. Invalid Selections (329219) | Code that doesn’t exist | Error, re-prompts menu | Pass |
| 1. Invalid Selections ( char, symbol) | A,a, ! | Error, re-prompts selection | Pass |

## <Sell Item>

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Valid Selection | 1, 2 | Accepts all valid inputs. Prompts quantity to buy | Pass |
| 1. Invalid Selections (438487) | Code that doesn’t exist | Error, re-prompts menu | Pass |
| 1. Invalid Selections (char, symbol) | A,a, ! | Error, re-prompts selection | Pass |

## <Search item>

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Valid Selection | 100 | Accepts all valid inputs. Finds item and prints to user. | Pass |
| 1. Invalid Selections (4328742) | Code that doesn’t exist | Error, Code doesn’t exist in inventory. | Pass |
| 1. Invalid Selections (char, symbol) | A,a, ! | Invalid Code. | Pass |

## <Save File>

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Valid Selection | 1, 2 | Accepts all valid inputs. Saves to file. | Pass |
| 1. Invalid Selection | Samefile.txt | Reprompts, file already made. | Pass |

## <Read From File>

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Valid Selection | MyInventory2.txt | Accepts, reads entire file and saves to arraylist | Pass |
| 1. Invalid Selections (no file found) | NoFile.txt | Error, No file, reprompts. | Pass |
| 1. Valid Selection (item code already exists within file) | MyInventory2.txt | Item code already exists, reprompts. | Pass |