# CST8130 – Data Structures

# Assignment 1 – Test Plan

# Written By – Justin Warkus-Fortin (wark0025)

## Add item to inventory.

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| * 1. Test invalid input | 9 |  | Pass |
| * 1. Test invalid input | A |  | Pass |
| * 1. Test invalid input | @ |  | Pass |
| * 1. Test valid input | 1 | Prompts next menu f,v,p | Pass |
|  |  |  |  |
|  |  |  |  |

## Add fruit, vegetable, preserve.

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Test invalid input | 9 | Invalid entry | Pass |
| 1. Test invalid input | A | Invalid enter | Pass |
| 1. Test invalid input | @ | Invalid entry | Pass |
| 1. Test valid input | F, f , all values added | Prompts user to add all the values | Pass |
| 1. Test valid input | V, v, all values added | Prompts user to add all the values | Pass |
| 1. Test valid input | P, p, all values added | Prompts user to add all the values | Pass |

## Display current inventory

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Test invalid input | 9 | Error! | Pass |
| 1. Test invalid input | A | Error! | Pass |
| 1. Test invalid input | @ | Error! | Pass |
| 1. Test valid input | 2 | Displays inventory | Pass |
|  |  |  |  |
|  |  |  |  |

## Buy Item(s)

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Test invalid input | 9 | Prints Invalid input, re-prompts with menu | Pass |
| 1. Test invalid input | A | Prints Invalid input, re-prompts with menu | Pass |
| 1. Test invalid input | @ | Prints Invalid input, re-prompts with menu | Pass |
| 1. Test when code not found | 444 when only 111,222,-123 exist | Prints Code not found in inventory... Error...could not buy item  Re-prompts main menu | Pass |
| 1. Test valid input when inventory empty | 3 | Prints Error...could not buy item | Pass |
| 1. Test valid input when inventory has atleast 1 item | 3 | Prompts for entering quantity | Pass |
| 1. Once prompted for quantity, test invalid entries | Q, !, -5, | Q, ! prints Error and code not found error,  -5 initiates Sell as you are buying a negative amount, Not sure what to do fix but it does reprompt just with wrong message | Half pass |
| 1. Once prompted for quantity enter valid integer | 10 | Buys amount entered, re-prompts main menu | Pass |

## Sell an item

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Test invalid input | 9 | Prints Invalid input, re-prompts with menu | Pass |
| 1. Test invalid input | A | Prints Invalid input, re-prompts with menu | Pass |
| 1. Test invalid input | @ | Prints Invalid input, re-prompts with menu | Pass |
| 1. Test when code not found | 444 when only 111, 222, -123 exist | Prints Code not found in inventory... Error...could not sell item  Re-prompts main menu | Pass |
| 1. Test valid input when inventory empty | 4 | Prints Error...could not sell item | Pass |
| 1. Test valid input when inventory has atleast 1 item | 4 | Prompts for quantity | Pass |
| 1. Once prompted for quantity, test invalid entries | Q, !, -5, any number larger than in stock | Prints insufficient stock in inventory..  Error...could not sell item. | Half pass, prints Code not found in inventory...  Error...could not sell item as well |
| 1. Once prompted for quantity enter valid integer | 10 | If enough stock it will sell them, and update stock accordingly | Pass |

1. To exit

| Description of Test | Input Values | Output / Result | Pass/Fail |
| --- | --- | --- | --- |
| 1. Test invalid input | !, w, 9 | Prints Invalid input, re-prompts with menu | Pass |
| 1. Test valid input | 5 | Program ends | Pass |