Assignment 1 Test Plan

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Menu Testing

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| Condition | Input | Result |
| Menu input of 1 | 1, then prompt for input of item type | Item is processed per testing below |
| Menu input of 2 | 2 | Displays Items in Inventory |
| Menu input of 3 | 3, then prompt for a valid input code | Buying is processed per testing below |
| Menu input of 4 | 4, then prompt for a valid input code | Selling is processed per testing below |
| Menu input of 5 | 5 | Program ends |
| Below boundary: -1 | -1 | Invalid Entry… please enter choice from 1-5 |
| Character input: ‘A’ | A | Invalid Entry… please enter choice from 1-5 |
| Above boundary: 6 | 6 | Invalid Entry… please enter choice from 1-5 |

Create Purchased Item

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| Condition | Input | Result |
| Good(purchased) | P (then prompts for input of item code) | Invokes addItem() in PurchasedItem class |
| Good (valid item code) | 123 | Accepts entry and prompts for name of item |
| Good (valid item name) | paper | Accepts entry and prompts for quantity |
| Good (valid quantity) | 5 | Successfully created a ManufacturedItem using 2 codes, back to menu |
| Good (valid price) | 2.00 | Accepts entry and prompts for supplier name |
| Good (valid supplier name) | Staples | Accept entry, back to Inventory class |
| Input duplicate codes | 123 | (code exist) does not add it into inventory array, back to menu |
| Bad (invalid item  Code input)char | A | Invalid code… please enter integer greater than 0 |
| Bad (invalid item code input) | -123 | Invalid code… please enter integer greater than 0 |
| Bad (invalid quantity)char | B | Invalid quantity… please enter integer greater than 0 |
| Bad (invalid quantity) | -100 | Invalid quantity… please enter integer greater than 0 |
| Bad (invalid price) | C | Invalid price… please enter float greater than 0 |
| Bad (invalid price) | -2.00 | Invalid price… please enter float greater than 0 |

Create Manufactured Item

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| Condition | Input | Result |
| Good(manufactured) | M (then prompts for input of item code) | Invokes addItem() in Manufactured class |
| Good (valid item code) | 444 | Accepts entry and prompts for name of item |
| Good (valid item name) | Instructions | Accepts entry and prompts for quantity |
| Good (valid quantity) | 10 | Successfully created a ManufacturedItem using 2 codes, back to menu |
| Good (valid price) | 5.00 | Accepts entry and prompts for supplier name |
| Good (valid used inputCode) | 123, -1 | Accepts entry and places used item code in array |
| Manufactured uses more than 10 inputCodes | 123, 234, 698, 7030, 822, 308, 688, 982, 882, 103, 1028 | Takes 10 input codes, back to menu |
| Input duplicate codes | 444 | (code exist) does not add it into inventory array, back to menu |
| Bad (Manufactured not using any codes) | -1 | Error... manufactured item consist of an item not in inventory |
| Bad(Manufactured give used item code that does not exist | 670 | Error... manufactured item consist of an item not in inventory |
| Bad (invalid item  Code input)char | X | Invalid code… please enter integer greater than 0 |
| Bad (invalid item code input) | -123 | Invalid code… please enter integer greater than 0 |
| Bad (invalid quantity)char | Y | Invalid quantity… please enter integer greater than 0 |
| Bad (invalid quantity) | -100 | Invalid quantity… please enter integer greater than 0 |
| Bad (invalid price) | Z | Invalid price… please enter float greater than 0 |
| Bad (invalid price) | -6.00 | Invalid price… please enter float greater than 0 |

Buying Test

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| --- | --- | --- |
| Condition | Input | Result |
| Good(valid item code) | 123 (123 exist inside of inventory array) | Accepts entry and prompts for quantity |
| Good(valid quantity) | 5 | Updates quantity of stock for item code 123 |
| Bad (invalid item code) | 678 (678 does not exist inside of inventory array) | Error…could not buy item |
| Bad (invalid quantity) | -100000 | Please enter a valid quantity |
| Bad( invalid quantity) character | A | Please enter valid quantity |

Selling Test

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| Condition | Input | Result |
| Good(valid item code) | 123 (123 exist inside of inventory array) | Accepts entry and prompts for quantity |
| Good(valid quantity) | 10 | Updates quantity of stock for item code 123 |
| Bad (invalid item code) | 678 (678 does not exist inside of inventory array) | Error…could not sell item |
| Bad (invalid quantity) | -100000 | Please enter a valid quantity |
| Bad ( invalid quantity) character | A | Please enter valid quantity |
| Bad ( invalid quantity) Over limit | 50000(exceeds quantity in stock) | Error…could not sell item |