***CST8130 – Assign 2 Test Plan***

CST8130\_300

Xingyi Wu

040887028

**Menu Testing**

|  |  |  |
| --- | --- | --- |
| Condition | Input | Result |
| Menu input of 1 first | 1, to prompt the input for item option | Process to below testing |
| Menu input of 2 | 2 | Process to below testing |
| Menu input of 5 | 5, to prompt the input of a new file name to be created | Process to below testing |
| Menu input of 6 | 6, to prompt the input of a file name to be read | Process to below testing |
| Menu input of 7 | 7 | End of program |

**Menu 1 – Add Item**

|  |  |  |
| --- | --- | --- |
| Condition | Input | Result |
| Add an item | P, 456, paper, 100, 0.5, Staples | 3rd in the inventory |
| Add an item at head | M, 003, book, 20, 1.30, 123, -1 | 1st in the inventory |
| Add an item in the middle | p, 123, cream, 10, 3, loblaws | 2nd |
| Add an item in the end | M, 999, cake, 5, 8.6, 123, 456, -1 | Last in the inventory |

**Menu 2 – Inventory Display ()**

|  |  |  |
| --- | --- | --- |
| Condition | Input | Result |
| Default display | option 2 | Inventory:  (blank) |
| Ascending order by item code | 456, 003, 123, 999 | m: 003, book, 20, 1.30, 123, -1  P: 123, cream, 10, 3, loblaws  p: 456, paper, 100, 0.5, Staples  m: 999, cake, 5,8.6, 123, 456, -1 |

**Menu 5 – Create a file**

|  |  |  |
| --- | --- | --- |
| Condition | Input | Result |
| Create an empty file  (there is no item in the inventory) | Emptyfile.txt | (blank) |
| Create a new file with data | Datafile.txt  m: 003, book, 20, 1.30, 123, -1  P: 123, cream, 10, 3, loblaws  p: 456, paper, 100, 0.5, Staples  m: 999, cake, 5,8.6, 123, 456, -1 | Datafile.txt is successfully created. |
| Create an overwrite file | Datafile.txt  This file is already existing, would you like it to be overwritten?(Y/N) y | Datafile.txt is successfully created. |
| Create an existing file but no overwritten | Datafile.txt  This file is already existing, would you like it to be overwritten? (Y/N) n  Please enter a new file name:  Copyfile.txt | Copyfile.txt is successfully created. |

**Menu 6 – Read a file**

|  |  |  |
| --- | --- | --- |
| Condition | Input | Result |
| An empty file | Emptyfile.txt  (blank) | File is empty, nothing to read. |
| A file with correct data | Datafile.txt  m 003 book 20 1.30 123 -1  P 123 cream 10 3 loblaws  p 456 paper 100 0.5 Staples  m 999 cake 5 8.6 123 456 -1 | File is successfully read. |
| A file with wrong data | Badfile.txt  m 003 book 20 1.30 123 -1  P 123 cream 10 3 loblaws  p 456 paper 100 0.5 Staples  m 999 cake 5 8.6 123 456 -1  999999999 | Invalid item 999999999 in file  This line is unsuccessfully read. |
| A file with duplicate items | DupFile.txt  m 003 book 20 1.30 123 -1  P 123 cream 10 3 loblaws  p 456 paper 100 0.5 Staples  m 999 cake 5 8.6 123 456 -1  m 003 fan 30 1.30 456 -1 | File is successfully read.  (input 2 prompt:  Item: 3 book 20 price: $1.3 Code used: 123,  Item: 123 cream 10 price: $3.0 Supplier: loblaws  Item: 456 paper 100 price: $0.5 Supplier: Staples  Item: 999 cake 5 price: $8.6 Code used: 123, 456, |
| A file does not exist | abc.txt | Could not open file....abc.txt |