5COSC019C Object Oriented Programming

4. Testing and system validation (Phase 4) – Test Plans

	Test Case	Expected Result	Actual Result	Pass/Fail
1	Test adding an Electronics product using option "1".	Displaying Product successfully added message, and the list containing the new product.	Displays Product added successfully, message, and the list contains the new product.	Pass
2	Test adding adding a Clothing product using option "1".	Displaying Product successfully added message, and the list containing the new product.	Displaying Product successfully added message, and the list containing the new product.	Pass
3	Test adding a product when the system is at maximum capacity.	System reaches maximum capacity and displays "System has Reached Maximum Capacity."	System reaches maximum capacity and displays "System has Reached Maximum Capacity."	Pass
4	Test deleting an existing product using option "2".	Displays "Product removed successfully" message, and the list no longer contains the deleted product.	Displays "Product removed successfully" message, and the list no longer contains the deleted product.	Pass
5	Test deleting a non-existing product using option "2".	Displays "Product not found."	Displays "Product not found."	Pass
6	Test printing the list when it's empty using option "3".	Displays "The list is empty" message.	Displays "The list is empty" message.	Pass
7	Test printing the list with existing products using option "3".	Displays listed products in sorted order.	Displays listed products in sorted order.	Pass
8	Test saving when the list is empty using option "4".	Displays "File saved successfully message" message and saves text file with all the products.	Displays "File saved successfully message" message and saves text file with all the products.	Pass

9	Test saving when the list has products using option "4".	Displays "File saved successfully message" message and saves empty text file.	Displays "File saved successfully message" message and saves empty text file.	Pass
10	Test reading information from a valid file when the program is rerun.	Products in the list will get printed.	Products in the list gets printed.	Pass
11	Testing display menu.	Menu is displayed.	Menu is displayed.	Pass
12	Test selecting menu options.	Performance of respective actions.	Respective actions are performed.	Pass
13	Verify GUI initialization using option "5".	GUI is initialized without errors.	GUI is initialized without errors.	Pass