



Overview of the program:

This program is a Supermart Management System implemented in C.
It provides functionalities for managing product information in a supermart.

<p>Objective :</p> <p>To create a basic inventory management system for a supermart. This system allows users to:</p> <ol style="list-style-type: none">1. Add product details: Record information about products, such as name, manufacturer, quantity, and price.2. View all products: Display the inventory, showing all the stored product details.3. Search by manufacturer: List products based on a specific company's name.4. Track inventory size: Display the total count of products in the supermart.	<p>Display,Input and Output of code</p> <pre>****#####WELCOME TO SUPERMART #####**** 1. Add product information 2. Display product information 3. List all products of a given company 4. List the count of products in the supermart 5. Exit Enter one of the above: </pre>	
<p>Conclusion of the Code:</p> <p>The provided program successfully demonstrates a basic inventory management system for a supermart. It enables the user to:</p> <ol style="list-style-type: none">1. Add Products: Efficiently input product details such as name, manufacturer, available quantity, and price.2. View Inventory: Display all products currently stored in the inventory.3. Search by Manufacturer: Filter and list products based on the company name.4. Track Inventory Size: Show the total number of products added to the system.	<pre>Enter one of the above: 1 Enter product name = Toothpaste Enter company name = Sensodyne Enter available quantity = 100 Enter price = 70</pre>	
<p>Algorithm:</p> <ol style="list-style-type: none">1. Initialize Variables:<ul style="list-style-type: none">◦ Define an array sup of type struct supermart to store product details.◦ Initialize count to 0 to track the number of products.◦ Initialize input to hold user choices from the menu.2. Display Menu in a Loop:<ul style="list-style-type: none">◦ Use a while loop that runs until the user chooses to exit (input != 5).◦ Display the menu options:<ol style="list-style-type: none">i. Add product information.ii. Display all product information.iii. List all products of a given company.iv. Display the count of products in the supermart.v. Exit the program.3. Process User Input:<ul style="list-style-type: none">◦ Use a switch statement to process the user's choice (input).4. Option 1: Add Product Information:<ul style="list-style-type: none">◦ Prompt the user for:<ul style="list-style-type: none">▪ Product name.▪ Company name.▪ Available quantity.▪ Price.◦ Store these details in the sup[count] element.◦ Increment count.5. Option 2: Display All Product Information:<ul style="list-style-type: none">◦ If count is 0, display a message that no products are available.◦ Otherwise, iterate through the sup array from 0 to count - 1.◦ For each product, display:<ul style="list-style-type: none">▪ Product name.▪ Company name.▪ Available quantity.▪ Price.6. Option 3: List Products by Company:<ul style="list-style-type: none">◦ Prompt the user for a company name.◦ Iterate through the sup array from 0 to count - 1.◦ For each product, check if the company name matches (using strcmp).◦ If matched, display the product details.◦ If no matches are found, display an appropriate message.7. Option 4: Display Total Count of Products:<ul style="list-style-type: none">◦ Display the value of count, representing the total number of products in the inventory.8. Option 5: Exit Program:<ul style="list-style-type: none">◦ Terminate the program.9. Invalid Input Handling:<ul style="list-style-type: none">◦ If the user enters a choice outside 1-5, display an error message and loop back to the menu.	<pre>Enter one of the above: 2 You have entered the following information Product name = Toothpaste Company name = Sensodyne Available quantity = 100 Price = 70.00</pre>	<pre>Enter one of the above: 3 Enter company name: sensodyne Products from company sensodyne: Product: Toothpaste, Quantity: 100, Price: 70.00</pre>
	<pre>Enter one of the above: 4 No. of products available in the supermart: 1</pre>	<p>NAME: BHAKT K TALATI ER.NO: 12402130501007 BRANCH: CSD TERM:ODD SEMESTER: 1</p> <p>NAME: TWISHA PATEL ER.NO: 12402130501062 BRANCH: CSD TERM:ODD SEMESTER: 1</p>