



Supermarket Billing system


Java project



Introduction

The program uses a while loop to repeatedly prompt the user to enter details of an item, such as the item name, quantity, and price. It stores this information in an ArrayList of Item objects, which is a custom class defined in the code. The ArrayList of Item objects is useful for creating an inventory system or for printing out a receipt of the items purchased.

The program then prompts the user to enter the tax rate and discount amount. It then calculates the total tax, the final total and displays the subtotal, tax, discount and final total.



The Item class defines a simple object that stores the name, quantity, and price of an item. It has three methods `getName()`, `getQuantity()`, `getPrice()` which are used to retrieve the item's name, quantity, and price respectively.


The program is relatively simple, but it can be easily extended and enhanced to include additional features such as barcode scanning, inventory management, and customer database.

One of the benefits of using Java for this program is its robustness and scalability. Java is a widely-used, high-level programming language that is suitable for a wide range of applications, including large-scale enterprise systems. It also has a large and active community of developers, making it easy to find solutions to any problems that may arise during the development of the program.

Workflow

Work in the Supermarket will be done in the following way:


1. The product will come in the store.
2. Data entry operator will enter the information of the product in database.
3. The Administrator will enter the taxes and commissions for each product.
4. The customer will come and take the basket with him/her and choose the product and took it to the counter.



5. The bill calculating operator will check the products with the bar code detecting machine then it will match with product-id then it will show its information and price and the bill will be calculated and total payment will shown.


6. Customer will pay for the products.

7. All the products will be packed and delivered to the customer.



Output

```
java -cp /tmp/ZBWVZY80AO SupermarketBilling
Welcome to the Supermarket Billing System
Enter the item details:
Enter item name: butter
Enter item quantity: 1
Enter item price: 50
Item: butter, Quantity: 1, Price: $50.0
Enter item name: butter
Enter item quantity: 2
Enter item price: 50
Item: butter, Quantity: 2, Price: $50.0
Enter item name: bread
Enter item quantity: 2
Enter item price: 30
Item: bread, Quantity: 2, Price: $30.0
Enter item name: |
```



Thank You

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