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\* The ecommerceSystem program provides a basic simulation of an e-commerce system using Java.

\* It imports the Product, Customer, and Order classes from the com.ecommerce package and utilizes

\* the java.util.Map and java.util.Scanner classes for handling collections and user input, respectively.

\* The program starts by creating and displaying new products, then creates and displays a new customer.

\* The customer browses the available products, adds selected products to their shopping cart, and the

\* program displays the items added along with their quantities. It then calculates and prints the total

\* cost of the items in the shopping cart. The customer proceeds to place an order, and the program shows

\* the order summary. Finally, the updated stock of products is displayed, reflecting any changes due to

\* the customer's purchases. The program includes input validation to ensure correct data entry when adding

\* products to the cart.

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import com.ecommerce.Product;

import com.ecommerce.Customer;

import com.ecommerce.orders.Order;

import java.util.Map;

import java.util.Scanner;

public class ecommerceSystem {

public static void main(String[] args) {

// New products

System.out.println("New Stock:");

Product product1 = new Product(1, "Table", 200.00, "Wooden", 10);

Product product2 = new Product(2, "Chair", 800.00, "Sofa", 5);

Product product3 = new Product(3, "Shoes", 150.00, "Leather", 30);

System.out.println(product1);

System.out.println(product2);

System.out.println(product3);

System.out.println();

// New customer

System.out.println("Customer:");

Customer customer = new Customer(1, "Becky Li", "becky@gmail.com", "1112233344", "30 Amazing Str");

System.out.println(customer);

System.out.println();

// Customer browses products

System.out.println("Current Stock:");

System.out.println(product1);

System.out.println(product2);

System.out.println(product3);

System.out.println();

// Customer adds products to the shopping cart

try {

customer.addToCart(product1, 1);

customer.addToCart(product3, 2);

} catch (IllegalArgumentException e) {

System.out.println(e.getMessage());

}

System.out.println("Products Added to Cart:");

for (Map.Entry<Product, Integer> entry : customer.getShoppingCart().entrySet()) {

System.out.println(entry.getKey() + " Quantity: " + entry.getValue());

}

// Display shopping cart total

System.out.println("Shopping Cart Total: " + customer.calculateTotal());

System.out.println();

// Customer places an order

System.out.println("Order Summary:");

customer.placeOrder(1);

System.out.println();

// Display updated product stock

System.out.println("Updated Stock:");

System.out.println(product1);

System.out.println(product2);

System.out.println(product3);

}

}

