**ONLINE SHOPPING MART**

**package** shopping.com;

**import** java.util.\*;

**class** Product {

**private** **int** id;

**private** String name;

**private** **double** price;

**public** Product(**int** id, String name, **double** price) {

**this**.id = id;

**this**.name = name;

**this**.price = price;

}

**public** **int** getId() { **return** id; }

**public** String getName() { **return** name; }

**public** **double** getPrice() { **return** price; }

@Override

**public** String toString() {

**return** id + ". " + name + " - ₹" + price;

}

}

**class** ShoppingCart {

**private** Map<Product, Integer> cartItems = **new** HashMap<>();

**public** **void** addProduct(Product product, **int** quantity) {

cartItems.put(product, cartItems.getOrDefault(product, 0) + quantity);

}

**public** **void** removeProduct(Product product) {

**if** (cartItems.containsKey(product)) {

cartItems.remove(product);

System.***out***.println(product.getName() + " removed from cart.");

} **else** {

System.***out***.println("Product not found in cart.");

}

}

**public** **void** viewCart() {

**if** (cartItems.isEmpty()) {

System.***out***.println("Your cart is empty.");

**return**;

}

System.***out***.println("\n--- Your Cart ---");

**for** (Map.Entry<Product, Integer> entry : cartItems.entrySet()) {

Product p = entry.getKey();

**int** qty = entry.getValue();

System.***out***.println(p.getName() + " x " + qty + " = ₹" + (p.getPrice() \* qty));

}

System.***out***.println("Total: ₹" + getTotalPrice());

}

**public** **double** getTotalPrice() {

**double** total = 0;

**for** (Map.Entry<Product, Integer> entry : cartItems.entrySet()) {

total += entry.getKey().getPrice() \* entry.getValue();

}

**return** total;

}

**public** **void** checkout() {

**if** (cartItems.isEmpty()) {

System.***out***.println("Cart is empty. Add items before checkout.");

**return**;

}

System.***out***.println("\n--- Checkout ---");

viewCart();

System.***out***.println("Thank you for shopping with us!");

cartItems.clear();

}

}

**public** **class** Shoppimgcart {

**public** **static** **void** main(String[] args) {

Scanner sc = **new** Scanner(System.***in***);

// Product catalog

List<Product> products = Arrays.*asList*(

**new** Product(1, "Laptop", 55000.0),

**new** Product(2, "Smartphone", 25000.0),

**new** Product(3, "Headphones", 2000.0),

**new** Product(4, "Keyboard", 1200.0),

**new** Product(5, "Mouse", 800.0)

);

ShoppingCart cart = **new** ShoppingCart();

**while** (**true**) {

System.***out***.println("\n--- Online Shopping System ---");

System.***out***.println("1. View Products");

System.***out***.println("2. Add to Cart");

System.***out***.println("3. Remove from Cart");

System.***out***.println("4. View Cart");

System.***out***.println("5. Checkout");

System.***out***.println("6. Exit");

System.***out***.print("Choose an option: ");

**int** choice = sc.nextInt();

**switch** (choice) {

**case** 1:

System.***out***.println("\n--- Product List ---");

products.forEach(System.***out***::println);

**break**;

**case** 2:

System.***out***.print("Enter product ID: ");

**int** id = sc.nextInt();

System.***out***.print("Enter quantity: ");

**int** qty = sc.nextInt();

**if** (id > 0 && id <= products.size()) {

cart.addProduct(products.get(id - 1), qty);

System.***out***.println("Added to cart!");

} **else** {

System.***out***.println("Invalid Product ID.");

}

**break**;

**case** 3:

System.***out***.print("Enter product ID to remove: ");

**int** removeId = sc.nextInt();

**if** (removeId > 0 && removeId <= products.size()) {

cart.removeProduct(products.get(removeId - 1));

} **else** {

System.***out***.println("Invalid Product ID.");

}

**break**;

**case** 4:

cart.viewCart();

**break**;

**case** 5:

cart.checkout();

**break**;

**case** 6:

System.***out***.println("Exiting... Goodbye!");

sc.close();

**return**;

**default**:

System.***out***.println("Invalid choice. Try again.");

}

}

}

}