**Exercise 2: E-commerce Platform Search Function**

**CODE:**

import java.util.ArrayList;

import java.util.List;

import java.util.Scanner;

class Product {

    private String name;

    private double price;

    public Product(String name, double price) {

        this.name = name;

        this.price = price;

    }

    public String getName() {

        return name;

    }

    public double getPrice() {

        return price;

    }

    // Display product as "Product Name - ₹Price"

    public String toString() {

        return name + ":" + String.format("%.2f", price);

    }

}

class Cart {

    private List<Product> items;

    public Cart() {

        items = new ArrayList<>();

    }

    public void addToCart(Product product) {

        items.add(product);

        System.out.println(product.getName() + " added to cart.");

    }

    public void showCart() {

        if (items.isEmpty()) {

            System.out.println("Cart is empty.");

            return;

        }

        System.out.println("\nYour Cart:");

        double total = 0;

        for (Product p : items) {

            System.out.println("- " + p);

            total += p.getPrice();

        }

        System.out.println("Total: \u20B9" + String.format("%.2f", total));

    }

}

public class EcommerceCart {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        List<Product> store = new ArrayList<>();

        store.add(new Product("ASUS Laptop", 55000));

        store.add(new Product("Sony Headphones", 7999));

        store.add(new Product("Leather Wallet", 999));

        store.add(new Product("Office Chair", 3499));

        store.add(new Product("Atomic Habits Book", 499));

        Cart cart = new Cart();

        while (true) {

            System.out.println("\nAvailable Products:");

            for (int i = 0; i < store.size(); i++) {

                System.out.println((i + 1) + ". " + store.get(i));

            }

            System.out.println("0. Exit and show cart");

            System.out.print("Select a product to add to cart (1-" + store.size() + "): ");

            int choice = scanner.nextInt();

            if (choice == 0) {

                break;

            } else if (choice >= 1 && choice <= store.size()) {

                cart.addToCart(store.get(choice - 1));

            } else {

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

            }

        }

        cart.showCart();

        scanner.close();

    }

}

**OUTPUT:**

