ONLINE STORE MANAGEMENT SYSTEM

```java
import java.util.ArrayList;

import java.util.InputMismatchException;

import java.util.Iterator;

import java.util.Scanner;


class Product {

    private int id;

    private String name;

    private double price;


    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;

    }
```

```java
    public double getPrice() {
        return price;
    }


    @Override
    public String toString() {
        return id + ". " + name + " - $" + price;
    }
}


class Store {
    private ArrayList<Product> products = new ArrayList<>();


    public void addProduct(Product product) {
        products.add(product);
    }


    public void displayProducts() {
        if (products.isEmpty()) {
            System.out.println("No products available.");
        } else {
            for (Product product : products) {
                System.out.println(product);
            }
        }
    }
```

```java
    public Product getProductById(int id) {

        for (Product product : products) {

            if (product.getId() == id) {

                return product;

            }

        }

        return null;

    }


    public boolean removeProductById(int id) {

        Iterator<Product> iterator = products.iterator();

        while (iterator.hasNext()) {

            if (iterator.next().getId() == id) {

                iterator.remove();

                return true;

            }

        }

        return false;

    }

}


public class Main {

    public static void main(String[] args) {

        Store store = new Store();

        store.addProduct(new Product(1, "Laptop", 800.0));

        store.addProduct(new Product(2, "Smartphone", 500.0));
```

```java
        store.addProduct(new Product(3, "Headphones", 50.0));

        Scanner scanner = new Scanner(System.in);

        while (true) {
            System.out.println("\nOnline Store Management System");
            System.out.println("1. View Products");
            System.out.println("2. Buy Product");
            System.out.println("3. Exit");
            System.out.print("Enter choice: ");

            try {
                int choice = scanner.nextInt();

                switch (choice) {
                    case 1:
                        store.displayProducts();
                        break;
                    case 2:
                        System.out.print("Enter product ID to buy: ");
                        int id = scanner.nextInt();
                        Product product = store.getProductById(id);
                        if (product != null) {
                            System.out.println("You bought: " + product.getName() + " for $" +
product.getPrice());
                            store.removeProductById(id);
                        } else {
```

```java
                System.out.println("Product not found!");
            }
            break;
        case 3:
            System.out.println("Exiting...");
            scanner.close();
            return;
        default:
            System.out.println("Invalid choice. Try again.");
    }
} catch (InputMismatchException e) {
    System.out.println("Invalid input. Please enter a number.");
    scanner.next(); // Consume invalid input to prevent an infinite loop
}
        }
    }
}
```

OUTPUT

Online Store Management System

1.   View Products

2.   Buy Product

3.   Exit

Enter choice: 2

Enter product ID to buy: 3

You bought: Headphones for $50.0

Online Store Management System

1.   View Products

2.   Buy Product

3.   Exit

Enter choice: 3

Exit