

eclipse-workspace - tejal/src/tejal/Task14.java - Eclipse IDE

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Project Explorer X first.jsp menu.jsp contact.jsp admin.jsp admin\_panel... login\_custom... demo.java task\_14.java tasks\_14.java Task14.java X

1 package tejal;

Problems Servers Terminal Data Source Explorer Properties Console X www.eclipse.org

<terminated> Task14 [Java Application] C:\Users\visha\p2\pool\plugins\org.eclipse.jst\openjddi\hotspot\jre\full\win32\x86\_64\_21.0.7.v20250502-0916\jre\bin\javaw.exe (10-Feb-2026, 11:44:15 am – 11:45:02 am elapsed: 0:00:47.325)

Enter new price: 40  
Product updated!

Inventory Management System  
1. Add Product  
2. Update Product  
3. Delete Product  
4. View Products  
5. Display Summary  
6. Save Inventory  
7. Exit  
3  
Enter Product ID to delete: 22  
Product deleted!

Inventory Management System  
1. Add Product  
2. Update Product  
3. Delete Product  
4. View Products  
5. Display Summary  
6. Save Inventory  
7. Exit  
4

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1 package tejal;

1. Add Product  
2. Update Product  
3. Delete Product  
4. View Products  
5. Display Summary  
6. Save Inventory  
7. Exit  
6

Inventory saved to file.

Inventory Management System  
1. Add Product  
2. Update Product  
3. Delete Product  
4. View Products  
5. Display Summary  
6. Save Inventory  
7. Exit  
2

Enter Product ID to update: 22  
Enter new quantity: 5  
Enter new price: 40

eclipse-workspace - tejal/src/tejal/Task14.java - Eclipse IDE

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Project Explorer X first.jsp menu.jsp contact.jsp admin.jsp admin\_panel... login\_custom... demo.java task\_14.java tasks\_14.java Task14.java

```
1 package tejal;
```

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<terminated> Task14 [Java Application] C:\Users\visha\p2\pool\plugins\org.eclipse.jst\openjedit\hotspot\jre\full\win32\x86\_64\_21.0.7.v20250502-0916\jre\bin\javaw.exe (10-Feb-2026, 11:44:15 am – 11:45:02 am elapsed: 0:00:47.325)

4. View Products  
5. Display Summary  
6. Save Inventory  
7. Exit  
4  
Inventory:  
ID: 22, Name: abc, Quantity: 7, Price: 50.0

Inventory Management System  
1. Add Product  
2. Update Product  
3. Delete Product  
4. View Products  
5. Display Summary  
6. Save Inventory  
7. Exit  
5  
Inventory Summary:  
Total Products: 1  
ID: 22, Name: abc, Quantity: 7, Price: 50.0

Inventory Management System

eclipse-workspace - tejal/src/tejal/Task14.java - Eclipse IDE

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1 package tejal;

Inventory Management System

1. Add Product  
2. Update Product  
3. Delete Product  
4. View Products  
5. Display Summary  
6. Save Inventory  
7. Exit

1  
Enter ID: 22  
Enter Name: abc  
Enter Quantity: 7  
Enter Price: 50  
Product added!

Inventory Management System

1. Add Product  
2. Update Product  
3. Delete Product  
4. View Products  
5. Display Summary

```
1
Enter ID: 22
Enter Name: abc
Enter Quantity: 7
Enter Price: 50
Product added!

Inventory Management System
1. Add Product
2. Update Product
3. Delete Product
4. View Products
5. Display Summary
```

eclipse-workspace - komal1/src/komal1/tasks\_14.java - Eclipse IDE

```
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```

Project Explorer X first.jsp menu.jsp contact.jsp admin.jsp admin\_panel... login\_custom... login.jsp demo.java task\_14.java tasks\_14.java

```
125     }
126
127●    private static void saveInventory() {
128●        try (ObjectOutputStream oos = new ObjectOutputStream(new FileOutputStream(FILE_NAME))) {
129            oos.writeObject(inventory);
130            System.out.println("Inventory saved to file.");
131        } catch (IOException e) {
132            System.out.println("Error saving inventory: " + e.getMessage());
133        }
134    }
135
136●    private static void loadInventory() {
137        File file = new File(FILE_NAME);
138●        if (file.exists()) {
139            try (ObjectInputStream ois = new ObjectInputStream(new FileInputStream(file))) {
140                inventory = (Map<Integer, Product>) ois.readObject();
141                System.out.println("Inventory loaded from file.");
142            } catch (IOException | ClassNotFoundException e) {
143                System.out.println("Error loading inventory: " + e.getMessage());
144            }
145        }
146    }
147 }
```

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tasks\_14 [Java Application] C:\Users\visha\p2\pool\plugins\org.eclipse.justui.open\dk\hotspot\jre\full\win32\x86\_64\_21.0.7.v20250502-0916\jre\bin\javaw.exe (10-Feb-2026, 11:38:58 am elapsed: 0:04:06) [pid: 9660]

Writable Smart Insert 145 : 10 : 5227

eclipse-workspace - komal1/src/komal1/tasks\_14.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
```

Project Explorer X first.jsp menu.jsp contact.jsp admin.jsp admin\_panel.jsp login\_custom.jsp login.jsp demo.java task\_14.java tasks\_14.java

```
122 System.out.println("Inventory Summary.");
123 System.out.println("Total Products: " + inventory.size());
124 inventory.forEach((id, product) -> System.out.println(product));
125 }
126
127 private static void saveInventory() {
128     try (ObjectOutputStream oos = new ObjectOutputStream(new FileOutputStream(FILE_NAME))) {
129         oos.writeObject(inventory);
130         System.out.println("Inventory saved to file.");
131     } catch (IOException e) {
132         System.out.println("Error saving inventory: " + e.getMessage());
133     }
134 }
135
136 private static void loadInventory() {
137     File file = new File(FILE_NAME);
138     if (file.exists()) {
139         try (ObjectInputStream ois = new ObjectInputStream(new FileInputStream(file))) {
140             inventory = (Map<Integer, Product>) ois.readObject();
141             System.out.println("Inventory loaded from file.");
142         } catch (IOException | ClassNotFoundException e) {
143             System.out.println("Error loading inventory: " + e.getMessage());
144         }
145     }
}
```

Problems Servers Terminal Data Source Explorer Properties Console www.eclipse.org

tasks 14 [Java Application] C:\Users\visha\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_21.0.7.v20250502-0916\jre\bin\javaw.exe (10-Feb-2026, 11:38:58 am elapsed: 0:03:56) [pid: 9660]

Writable Smart Insert 64 : 46 : 2067

eclipse-workspace - komal1/src/komal1/tasks\_14.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
```

Project Explorer X first.jsp menu.jsp contact.jsp admin.jsp admin\_panel.jsp login\_custom.jsp login.jsp demo.java task\_14.java tasks\_14.java

```
102     product.setPrice(scanner.nextDouble());
103     System.out.println("Product updated!");
104 }
105
106 private static void deleteProduct() {
107     System.out.print("Enter Product ID to delete: ");
108     int id = scanner.nextInt();
109     if (inventory.remove(id) == null) {
110         System.out.println("Product not found!");
111     } else {
112         System.out.println("Product deleted!");
113     }
114 }
115
116 private static void viewProducts() {
117     System.out.println("Inventory:");
118     inventory.values().forEach(System.out::println);
119 }
120
121 private static void displaySummary() {
122     System.out.println("Inventory Summary:");
123     System.out.println("Total Products: " + inventory.size());
124     inventory.forEach((id, product) -> System.out.println(product));
}
```

Snipping Tool

Screenshot copied to clipboard  
Automatically saved to screenshots folder.

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eclipse-workspace - komal1/src/komal1/tasks\_14.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
```

Project Explorer X first.jsp menu.jsp contact.jsp admin.jsp admin\_panel.jsp login\_custom.jsp login.jsp demo.java task\_14.java tasks\_14.java

```
83     System.out.print("Enter Quantity: ");
84     int quantity = scanner.nextInt();
85     System.out.print("Enter Price: ");
86     double price = scanner.nextDouble();
87     inventory.put(id, new Product1(id, name, quantity, price));
88     System.out.println("Product added!");
89 }
90
91 private static void updateProduct() {
92     System.out.print("Enter Product ID to update: ");
93     int id = scanner.nextInt();
94     Product1 product = inventory.get(id);
95     if (product == null) {
96         System.out.println("Product not found!");
97         return;
98     }
99     System.out.print("Enter new quantity: ");
100    product.setQuantity(scanner.nextInt());
101    System.out.print("Enter new price: ");
102    product.setPrice(scanner.nextDouble());
103    System.out.println("Product updated!");
104 }
105
106 private static void deleteProduct() {
```

Problems Servers Terminal Data Source Explorer Properties Console www.eclipse.org

tasks 14 [Java Application] C:\Users\visha\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_21.0.7.v20250502-0916\jre\bin\javaw.exe (10-Feb-2026, 11:38:58 am elapsed: 0:03:37) [pid: 9660]

ENTER PRODUCT ID TO UPDATE: 11

Writable Smart Insert 64 : 46 : 2067

eclipse-workspace - komal1/src/komal1/tasks\_14.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer X first.jsp menu.jsp contact.jsp admin.jsp admin_panel... login_custom... login.jsp demo.java task_14.java tasks_14.java X
64     System.out.println("1. Add Product");
65     System.out.println("2. Update Product");
66     System.out.println("3. Delete Product");
67     System.out.println("4. View Products");
68     System.out.println("5. Display Summary");
69     System.out.println("6. Save Inventory");
70     System.out.println("7. Exit");
71 }
72
73 private static void addProduct() {
74     System.out.print("Enter ID: ");
75     int id = scanner.nextInt();
76     if (inventory.containsKey(id)) {
77         System.out.println("Product ID already exists!");
78         return;
79     }
80     scanner.nextLine();
81     System.out.print("Enter Name: ");
82     String name = scanner.nextLine();
83     System.out.print("Enter Quantity: ");
84     int quantity = scanner.nextInt();
85     System.out.print("Enter Price: ");
86     double price = scanner.nextDouble();
```

Problems Servers Terminal Data Source Explorer Properties Console X www.eclipse.org

tasks 14 [Java Application] C:\Users\visha\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_21.0.7.v20250502-0916\jre\bin\javaw.exe (10-Feb-2026, 11:38:58 am elapsed: 0:03:27) [pid: 9660]

ENTER PRODUCT ID <ctrl+enter> .

eclipse-workspace - komal1/src/komal1/tasks\_14.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help  
Project Explorer X first.jsp menu.jsp contact.jsp admin.jsp admin_panel... login_custom... login.jsp demo.java task_14.java tasks_14.java X  
src  
komal1  
demo.java  
slip10q1.java  
slip13q2.java  
slip14q1.java  
slip17q2.java  
slip19q1.java  
slip1q1.java  
slip21q1.java  
slip21q2.java  
task_10.java  
task_11.java  
task_12.java  
task_14.java  
task_2.java  
task_4.java  
task_5.java  
task_6.java  
task_7.java  
task_8.java  
task_9.java  
task1.java  
task3.java  
tasks_14.java  
module-info.java  
student.ser  
user_data.txt  
multithread  
opps  
Servers  
stringtype  
task  
tejal  
uncommented  
42     public static void main(String[] args) {  
43         LoadInventory();  
44         while (true) {  
45             SystemDisplayMenu();  
46             int choice = scanner.nextInt();  
47             scanner.nextLine(); // consume newline  
48             switch (choice) {  
49                 case 1 -> addProduct();  
50                 case 2 -> updateProduct();  
51                 case 3 -> deleteProduct();  
52                 case 4 -> viewProducts();  
53                 case 5 -> displaySummary();  
54                 case 6 -> saveInventory();  
55                 case 7 -> System.exit(0);  
56                 default -> System.out.println("Invalid choice!");  
57             }  
58         }  
59     }  
60 }  
61  
62 private static void SystemDisplayMenu() {  
63     System.out.println("\nInventory Management System");  
64     System.out.println("1. Add Product");
```

Problems Servers Terminal Data Source Explorer Properties Console X www.eclipse.org  
tasks\_14 [Java Application] C:\Users\visha\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_21.0.7.v20250502-0916\jre\bin\javaw.exe (10-Feb-2026, 11:38:58 am elapsed: 0:03:15) [pid: 9660]  
Effect Product ID 80 0000000000000000  
Writable Smart Insert 64 : 46 : 2067

eclipse-workspace - komal1/src/komal1/tasks\_14.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer X first.jsp menu.jsp contact.jsp admin.jsp admin_panel... login_custom... login.jsp demo.java task_14.java tasks_14.java
src
komal1
demo.java
slip10q1.java
slip13q2.java
slip14q1.java
slip17q2.java
slip19q1.java
slip1q1.java
slip21q1.java
slip21q2.java
task_10.java
task_11.java
task_12.java
task_14.java
task_2.java
task_4.java
task_5.java
task_6.java
task_7.java
task_8.java
task_9.java
taskjava
task3.java
tasks_14.java
module-info.java
student.ser
user_data.txt
multithread
opps
Servers
stringtype
task
tejal
uncaughtmethod
first.jsp menu.jsp contact.jsp admin.jsp admin_panel... login_custom... login.jsp demo.java task_14.java tasks_14.java
22 // Getters
23 public int getId() { return id; }
24 public String getName() { return name; }
25 public int getQuantity() { return quantity; }
26 public double getPrice() { return price; }
27
28 // Setters
29 public void setQuantity(int quantity) { this.quantity = quantity; }
30 public void setPrice(double price) { this.price = price; }
31
32 @Override
33 public String toString() {
34     return "ID: " + id + ", Name: " + name + ", Quantity: " + quantity + ", Price: " + price;
35 }
36
37
38 public class tasks_14 {
39     private static Map<Integer, Product> inventory = new HashMap<>();
40     private static final String FILE_NAME = "inventory.dat";
41     private static Scanner scanner = new Scanner(System.in);
42
43     public static void main(String[] args) {
44         LoadInventory();
```

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tasks\_14 [Java Application] C:\Users\visha\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_21.0.7.v20250502-0916\jre\bin\javaw.exe (10-Feb-2026, 11:38:58 am elapsed: 0:03:05) [pid: 9660]

Effect Product ID 80 selected. 11

Writable Smart Insert 42 : 1 : 1247

eclipse-workspace - komal1/src/komal1/tasks\_14.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help  
Project Explorer X first.jsp menu.jsp contact.jsp admin.jsp admin_panel... login_custom... login.jsp demo.java task_14.java tasks_14.java  
src  
komal1  
demo.java  
slip10q1.java  
slip13q2.java  
slip14q1.java  
slip17q2.java  
slip19q1.java  
slip1q1.java  
slip21q1.java  
slip21q2.java  
task_10.java  
task_11.java  
task_12.java  
task_14.java  
task_2.java  
task_4.java  
task_5.java  
task_6.java  
task_7.java  
task_8.java  
task_9.java  
task1.java  
task3.java  
tasks_14.java  
module-info.java  
student.ser  
user_data.txt  
multithread  
opps  
Servers  
stringtype  
task  
tejal  
uncaughtmethod  
1 package komal1;  
2  
3 import java.io.*;  
4 import java.util.HashMap;  
5 import java.util.Map;  
6 import java.util.Scanner;  
7  
8 class Product implements Serializable {  
9     private static final long serialVersionUID = 1L;  
10    private int id;  
11    private String name;  
12    private int quantity;  
13    private double price;  
14  
15    public Product(int id, String name, int quantity, double price) {  
16        this.id = id;  
17        this.name = name;  
18        this.quantity = quantity;  
19        this.price = price;  
20    }  
21  
22    // Getters  
23    public int getId() { return id; }  
EFFECT Product ID=80 selected. 11
```

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tasks 14 [Java Application] C:\Users\visha\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_21.0.7.v20250502-0916\jre\bin\javaw.exe (10-Feb-2026, 11:38:58 am elapsed: 0:02:55) [pid: 9660]