

eclipse-workspace - komal1/src/komal1/task_12.java - Eclipse IDE

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Project Explorer X first.jsp menu.jsp contact.jsp admin.jsp admin_panel... login_custom... login.jsp feedback.jsp task11.java *task_12.java X
29
30     // Step 2: Store object state into a file using ObjectOutputStream
31●   try (ObjectOutputStream oos = new ObjectOutputStream(new FileOutputStream("student.ser")))
32     oos.writeObject(student);
33     System.out.println("Student object serialized.");
34● } catch (IOException e) {
35     System.err.println("Serialization error: " + e.getMessage());
36 }
37
38     // Step 3: Retrieve object data back using ObjectInputStream
39● try (ObjectInputStream ois = new ObjectInputStream(new FileInputStream("student.ser"))) {
40     Student1 restoredStudent = (Student1) ois.readObject();
41     // Step 6: Validate restored object data
42     System.out.println("Deserialized Student: " + restoredStudent);
43     System.out.println("Note: transient field 'password' is null after deserialization.");
44● } catch (ClassNotFoundException e) {
45     // Step 7: Handle ClassNotFoundException
46     System.err.println("Class not found: " + e.getMessage());
47● } catch (IOException e) {
48     System.err.println("Deserialization error: " + e.getMessage());
49 }
50 }
51 }
```

Problems Servers Terminal Data Source Explorer Properties Console X Eclipse IDE for Enterprise Java and Web Developers 2025-12 Release

terminated> task_12 [Java Application] C:\Users\visha\b2\pool\plugins\org.eclipse.jst\open\dkhotspot\refull.win32.x86_64.21.0.7.v20250502-0916\re\bin\javaw.exe [03-Feb-2026 4:20:40 pm - 4:20:41 pm elapsed: 00:00:00.644] [c]

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```
24
25 public class task_12 {
26• public static void main(String[] args) {
27     // Create a Student object
28     Student1 student = new Student1("John Doe", 20, "secret123");
29
30     // Step 2: Store object state into a file using ObjectOutputStream
31•     try (ObjectOutputStream oos = new ObjectOutputStream(new FileOutputStream("student.ser")))
32         oos.writeObject(student);
33         System.out.println("Student object serialized.");
34•     } catch (IOException e) {
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```
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src
komal1
    abc
    basket
    comparearray
    day2
    exceptionhandling
    filehandling
    javapr
    kg
    komal [visha master]
        JRE System Library [JavaSE-21]
        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_2.java
                task_4.java
                task_5.java
                task_6.java
                task_7.java
                task_8.java
                task_9.java
                task3.java
            myfile-info.java
    terminated> task_12 [Java Application] C:\Users\visha\p2\pool\plugins\org.eclipse.jst\openide\chotspt\refull.win32.x86_64.21.0.7.v20250502-0916\re\bin\javaw.exe [03-Feb-2026 4:20:40 pm - 4:20:41 pm elapsed: 00:00:00.644] [0]
```

1 package komal1;
2
3 import java.io.*;
4
5 //Step 1: Design a Student class implementing Serializable
6 class Student1 implements Serializable {
7 private static final long serialVersionUID = 1L; // Step 4: serialVersionUID is important for
8 String name;
9 int age;
10 transient String password; // Step 5: Mark sensitive fields as transient
11
12 public Student1(String name, int age, String password) {
13 this.name = name;
14 this.age = age;
15 this.password = password;
16 }
17
18 @Override
19 public String toString() {
20 return "Student{name='" + name + "', age=" + age + ", password='"+ password + "'}";
21 }
22}
23

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Student object serialized.
Deserialized Student: Student{name='John Doe', age=20, password='null'}
Note: transient field 'password' is null after deserialization.