

Lab 23 – Assignment

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1) Write a program to read and write object to the file. the object need to store bookinfo

eg: bookid, title, author ,store and retrieve few objects to the file.

```
package com.wrapperclass.examples;

import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.Serializable;

class BookInfo implements Serializable {
    int bookId;
    String title;
    String author;

    public BookInfo(int bookId, String title, String
author) {
        this.bookId = bookId;
        this.title = title;
        this.author = author;
    }
}

public class ObjectSerialization {
    public static void writeToFile(BookInfo book,
String filePath) {
        try (ObjectOutputStream outputStream = new
ObjectOutputStream(new FileOutputStream(filePath))) {
            outputStream.writeObject(book);
            System.out.println("Object written to
file successfully.");
        } catch (IOException e) {
```

```

        e.printStackTrace();
    }
}

    public static BookInfo readFromFile(String
filePath) {
        try (ObjectInputStream inputStream = new
ObjectInputStream(new FileInputStream(filePath))) {
            return (BookInfo)
inputStream.readObject();
        } catch (IOException |
ClassNotFoundException e) {
            e.printStackTrace();
        }
        return null;
    }

    public static void main(String[] args) {
        // Create a BookInfo object
        BookInfo bookToStore = new BookInfo(1, "The
Great Gatsby", "F. Scott Fitzgerald");

        // Write the object to a file
        writeToFile(bookToStore, "book.ser");

        // Read the object from the file
        BookInfo retrievedBook =
readFromFile("book.ser");

        // Display retrieved object
        if (retrievedBook != null)
            System.out.println("Book ID: " +
retrievedBook.bookId + ", Title: " + retrievedBook.title
+", Author: " + retrievedBook.author);
    }
}

```

Output:

```
1 package com.wrapperclass.examples;
2
3 import java.io.FileInputStream;
4 import java.io.FileOutputStream;
5 import java.io.IOException;
6 import java.io.ObjectInputStream;
7 import java.io.ObjectOutputStream;
8 import java.io.Serializable;
9
10 class BookInfo implements Serializable {
11     int bookId;
12     String title;
13     String author;
14
15     public BookInfo(int bookId, String title, String author) {
16         this.bookId = bookId;
17         this.title = title;
18         this.author = author;
19     }
20 }
```

Problems @ Javadoc Declaration Console × Coverage

<terminated> ObjectSerialization [Java Application] C:\Users\USER\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_19.0.2.v20230129-1123\jre\bin\javaw.exe

Object written to file successfully.

Book ID: 1, Title: The Great Gatsby, Author: F. Scott Fitzgerald