**Assignment:** Write a program to read and write object to the file. the object need to store bookinfo

eg: bookid, title, author

store and retieve few objects to the file.

## **Program:1**

```
import java.io.*;
class BookInfo implements Serializable {
        private int bookId;
        private String title;
        private String author;
         // Constructor
        public BookInfo(int bookId, String title, String author) {
             this.bookId = bookId;
             this.title = title;
             this.author = author;
         }
         // Getters and setters (not necessary for serialization
example)
        public int getBookId() {
             return bookId;
        public String getTitle() {
             return title;
        public String getAuthor() {
             return author;
     public class Serialization {
```

```
// Method to write objects to a file
public static void writeObjectsToFile(String filename, BookInfo[] books)
try (ObjectOutputStream oos = new ObjectOutputStream(new
FileOutputStream(filename))) {
                 oos.writeObject(books);
                 System.out.println("Objects written to file: " +
filename);
             } catch (IOException e) {
                 e.printStackTrace();
         }
         // Method to read objects from a file
         public static BookInfo[] readObjectsFromFile(String filename) {
             try (ObjectInputStream ois = new ObjectInputStream(new
FileInputStream(filename))) {
                 Object obj = ois.readObject();
                 if (obj instanceof BookInfo[]) {
                     return (BookInfo[]) obj;
                 } else {
                     System.out.println("Invalid file format.");
                     return null;
             } catch (IOException | ClassNotFoundException e) {
                 e.printStackTrace();
                 return null;
             }
         }
         public static void main(String[] args) {
             // Create an array of BookInfo objects
             BookInfo[] books = {
                     new BookInfo(1, "The Great Gatsby", "F. Scott
Fitzgerald"),
                     new BookInfo(2, "To Kill a Mockingbird", "Harper
Lee"),
                     new BookInfo(3, "1984", "George Orwell")
             };
             // Write objects to a file
             writeObjectsToFile("books.dat", books);
             // Read objects from the file
             BookInfo[] retrievedBooks =
readObjectsFromFile("books.dat");
```

## **Output:**