import java.util.ArrayList;

import java.util.List;

public class DigitalLibrarySystem {

public static void main(String[] args) {

Library library = new Library("My Library");

Book book1 = new Book("Harry Potter and the Philosopher's Stone", "J.K. Rowling", "Fantasy");

Book book2 = new Book("To Kill a Mockingbird", "Harper Lee", "Fiction");

Book book3 = new Book("The Great Gatsby", "F. Scott Fitzgerald", "Classics");

library.addBook(book1);

library.addBook(book2);

library.addBook(book3);

library.displayBooks();

library.removeBook(book2);

library.displayBooks();

}

public static class Library {

private String name;

private List<Book> books;

public Library(String name) {

this.name = name;

this.books = new ArrayList<>();

}

public void addBook(Book book) {

books.add(book);

System.out.println(book.getTitle() + " has been added to the library.");

}

public void removeBook(Book book) {

if (books.remove(book)) {

System.out.println(book.getTitle() + " has been removed from the library.");

} else {

System.out.println(book.getTitle() + " is not in the library.");

}

}

public void displayBooks() {

if (books.isEmpty()) {

System.out.println("No books in the library.");

} else {

System.out.println("Books in the library:");

for (Book book : books) {

System.out.println(book.getTitle());

}

}

}

}

public static class Book {

private String title;

private String author;

private String genre;

public Book(String title, String author, String genre) {

this.title = title;

this.author = author;

this.genre = genre;

}

public String getTitle() {

return title;

}

public String getAuthor() {

return author;

}

public String getGenre() {

return genre;

}

}

}