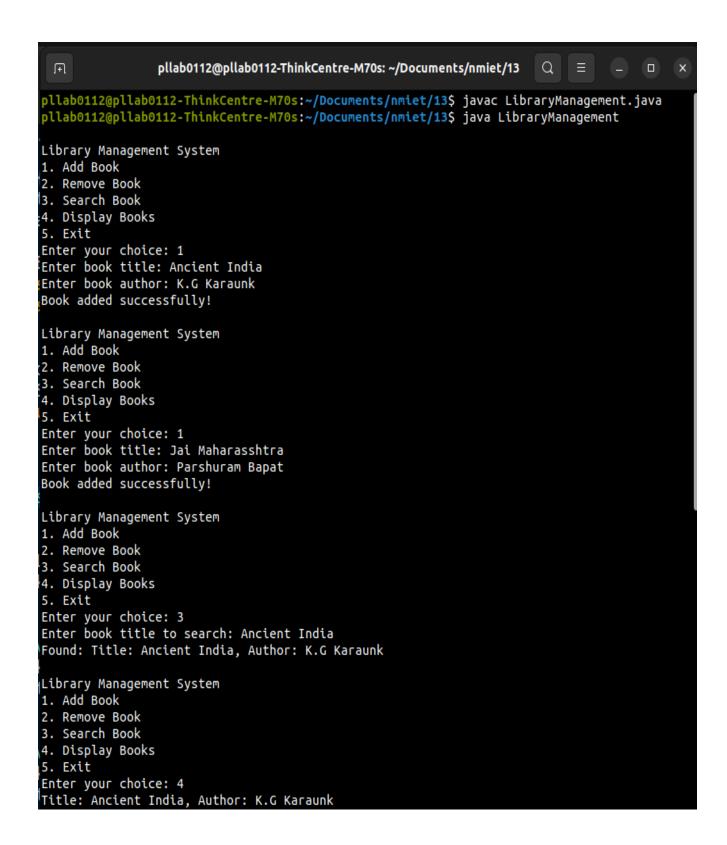# Assignment 13

Mayur Zope SE Comp A 75

Mini-project/Case Study

Design a mini project using Java which uses different data structures, with or without the Java Collection Library. Show how the choice of specific data structures affects the efficiency (performance) of the code.

```
pllab0112@pllab0112-ThinkCentre-M70s: ~/Documents/nmiet/13

pllab0112@pllab0112-ThinkCentre-M70s:~/Documents/nmiet/13$ javac LibraryManagement.java
pllab0112@pllab0112-ThinkCentre-M70s:~/Documents/nmiet/13$ java LibraryManagement

Library Management System
1. Add Book
2. Remove Book
3. Search Book
4. Display Books
5. Exit
Enter your choice: 1
Enter book title: Ancient India
Enter book author: K.G Karaunk
Book added successfully!

Library Management System
1. Add Book
2. Remove Book
3. Search Book
4. Display Books
5. Exit
Enter your choice: 1
Enter book title: Jai Maharasshtra
Enter book author: Parshuram Bapat
Book added successfully!

Library Management System
1. Add Book
2. Remove Book
3. Search Book
4. Display Books
5. Exit
Enter your choice: 3
Enter book title to search: Ancient India
Found: Title: Ancient India, Author: K.G Karaunk

Library Management System
1. Add Book
2. Remove Book
3. Search Book
4. Display Books
5. Exit
Enter your choice: 4
Title: Ancient India, Author: K.G Karaunk
```

```
5. Exit
Enter your choice: 3
Enter book title to search: Ancient India
Found: Title: Ancient India, Author: K.G Karaunk

Library Management System
1. Add Book
2. Remove Book
3. Search Book
4. Display Books
5. Exit
Enter your choice: 4
Title: Ancient India, Author: K.G Karaunk
Title: Jai Maharasshtra, Author: Parshuram Bapat

Library Management System
1. Add Book
2. Remove Book
3. Search Book
4. Display Books
5. Exit
Enter your choice: 2
Enter book title to remove: Ancient India
Book removed successfully!

Library Management System
1. Add Book
2. Remove Book
3. Search Book
4. Display Books
5. Exit
Enter your choice: 4
Title: Jai Maharasshtra, Author: Parshuram Bapat

Library Management System
1. Add Book
2. Remove Book
3. Search Book
4. Display Books
5. Exit
Enter your choice: 5
Exiting...
pllab0112@pllab0112-ThinkCentre-M70s:~/Documents/nmiet/13$
```