LIBRARY MANAGEMENT SYSTEM

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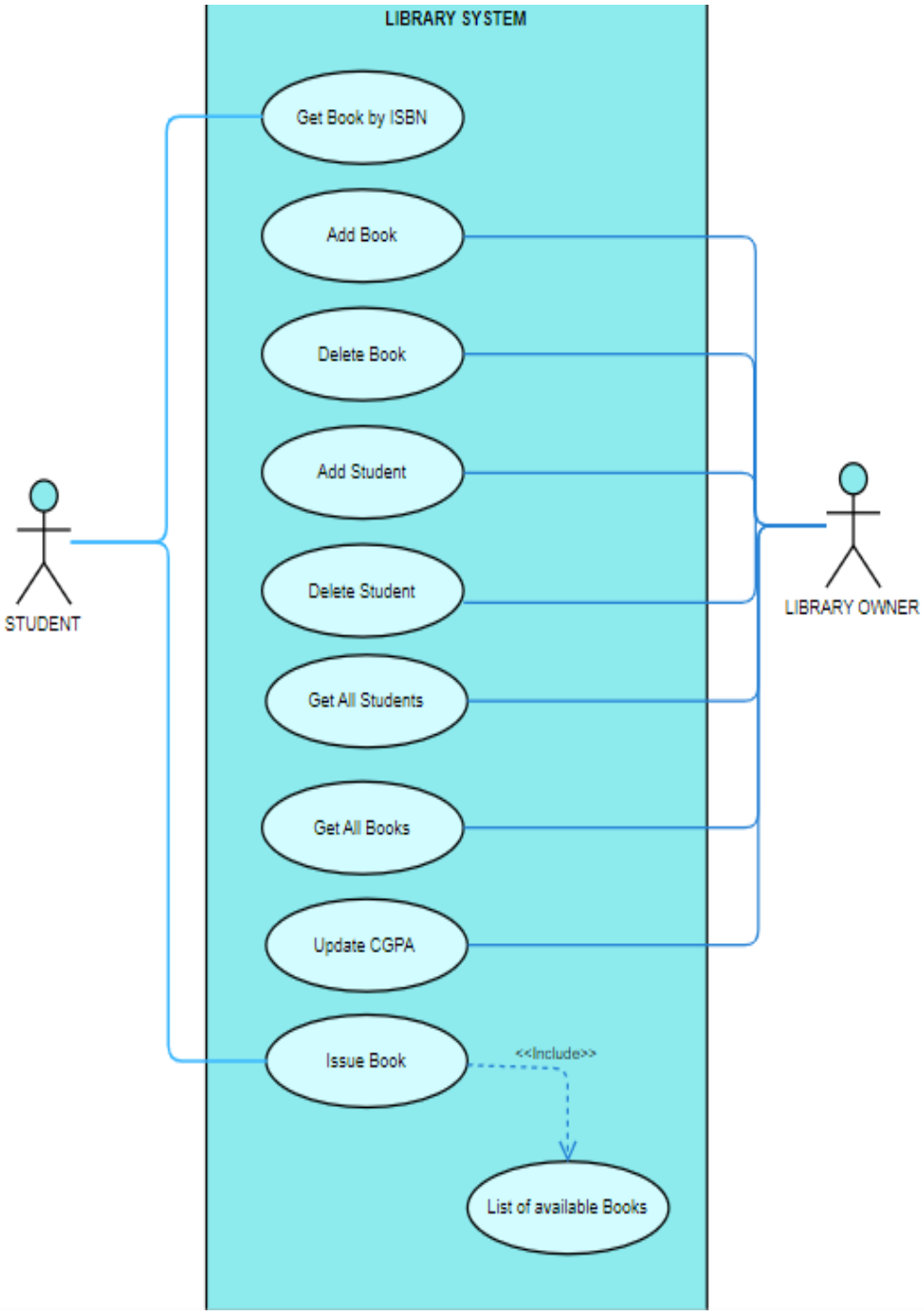
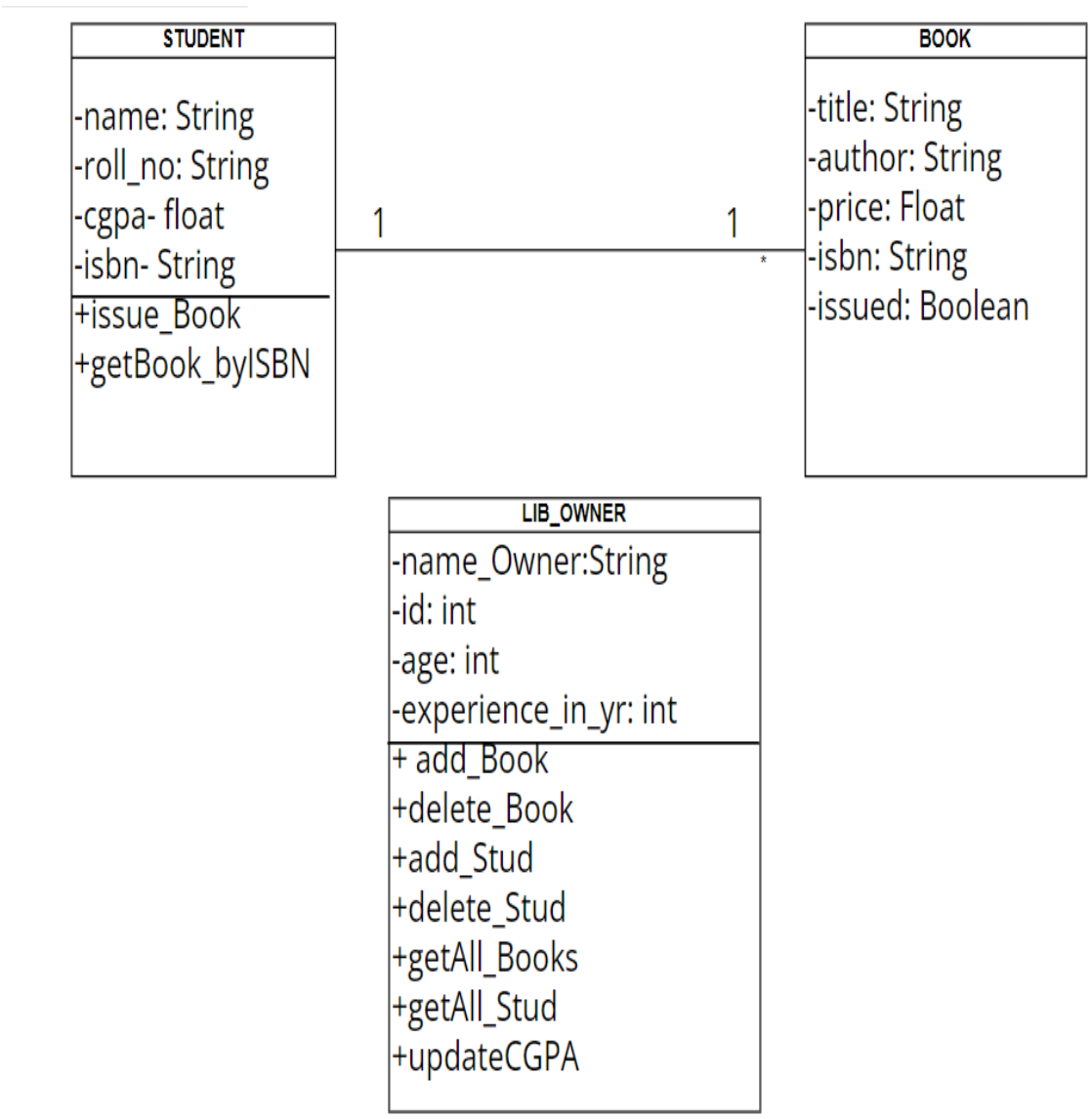
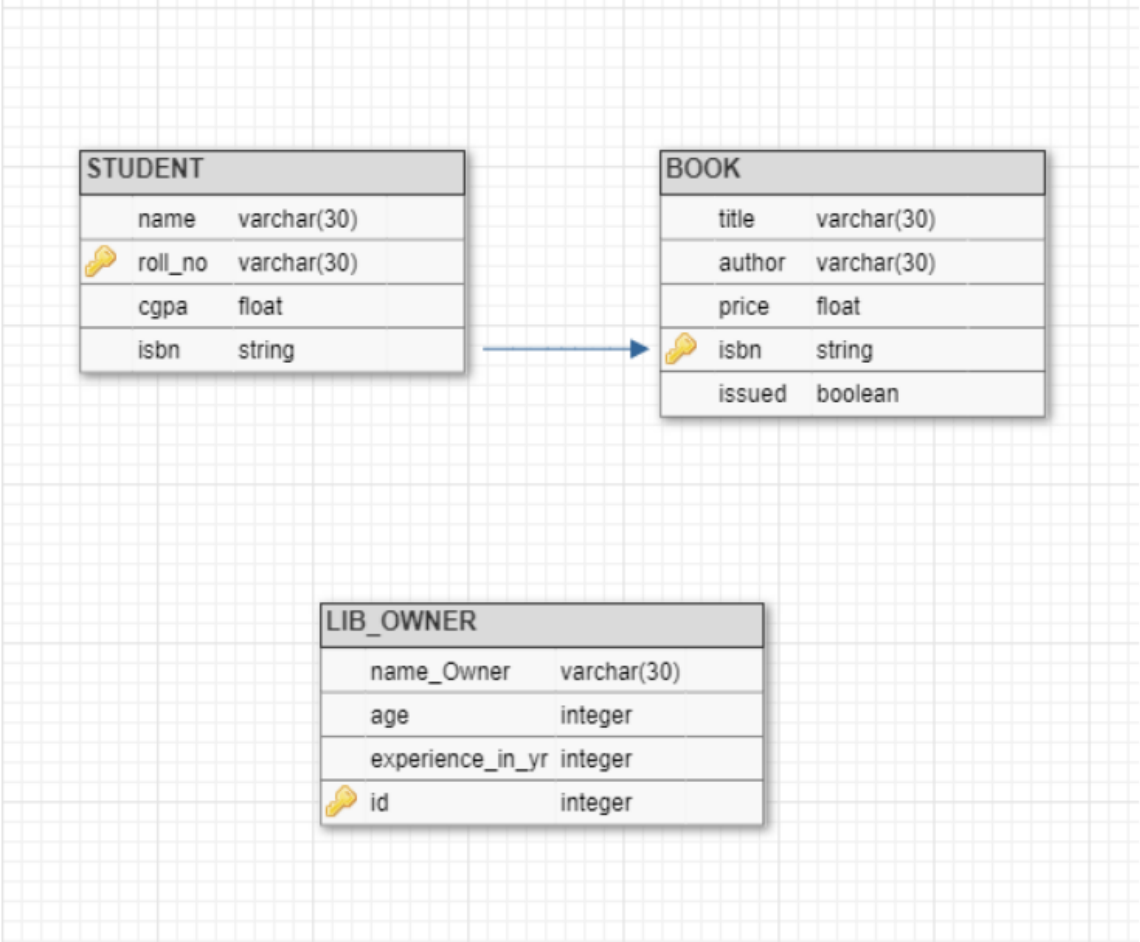
I) USE CASE DIAGRAM



II) UML Diagram



III) OR MAPPING



iv) Output Screenshots

1) Welcome page:

```
Welcome to my Library!!

Choose any one of the following choice:

Login as:

1. Student
2. Library_Owner
3. Exit

Your choice:
```

2) Student login page:

```
Welcome to my Library!!

Choose any one of the following choice:

Login as:

1. Student
2. Library_Owner
3. Exit

Your choice: 1

You are logged in as a student now

Choose any of the following choices:

1. Get book by ISBN
2. Issue book
3. Exit

Your choice:
```

3) Get book by ISBN:

```
You are logged in as a student now

Choose any of the following choices:

1. Get book by ISBN
2. Issue book
3. Exit

Your choice: 1

Enter ISBN of the book: 1
Title: Blockchain, Auth: Raza, Price: 1000.0, Isbn: 1

Enter your next choice:
```

4) Issue book:

```
You are logged in as a student now

Choose any of the following choices:

1. Get book by ISBN
2. Issue book
3. Exit

Your choice: 2
Enter your Roll Number: 001

List of available books that you can issue:

Title: Blockchain, Auth: Raza, Price: 1000.0, Isbn: 1

Enter ISBN of the book that you want to issue: 1
Book has been issued

Enter your next choice:
```

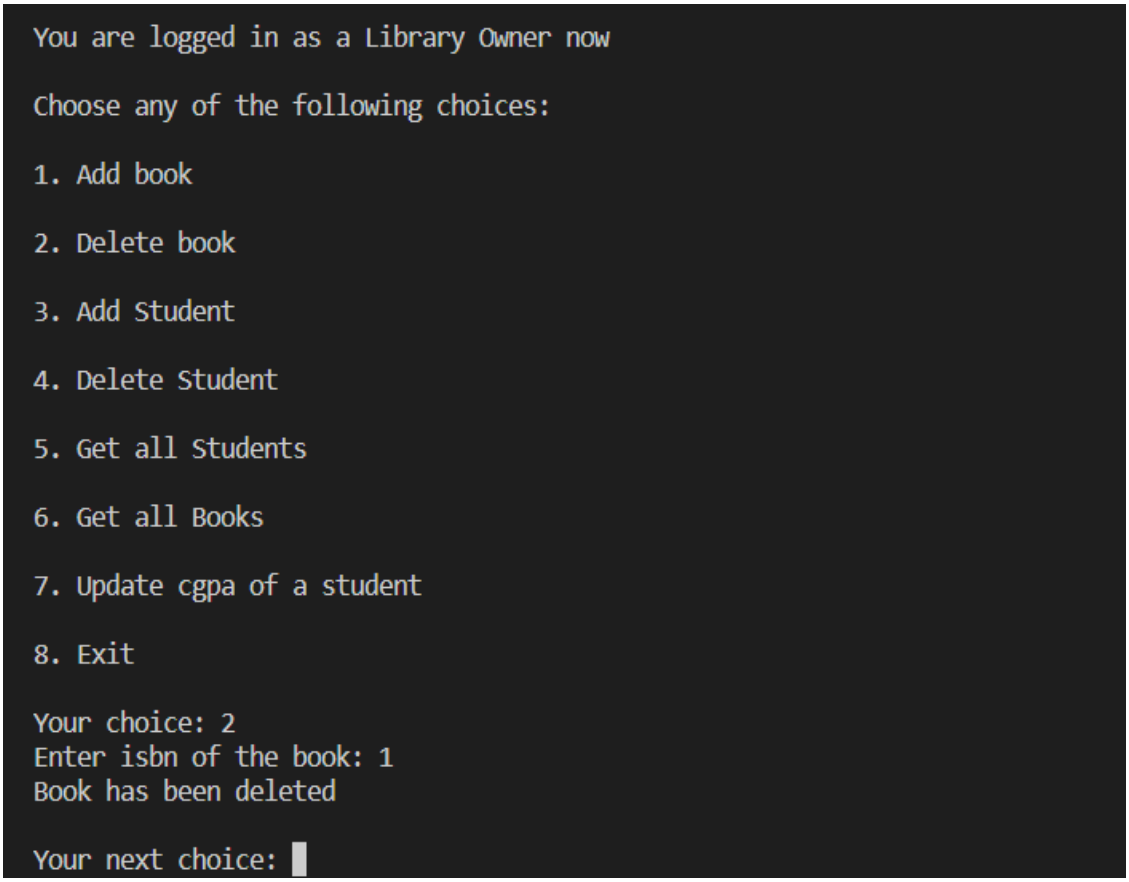
5) Owner login page:

```
Welcome to my Library!!

Choose any one of the following choice:

Login as:

1. Student
2. Library_Owner
3. Exit

Your choice: 2

You are logged in as a Library Owner now

Choose any of the following choices:

1. Add book

2. Delete book

3. Add Student

4. Delete Student

5. Get all Students

6. Get all Books

7. Update cgpa of a student

8. Exit

Your choice:
```

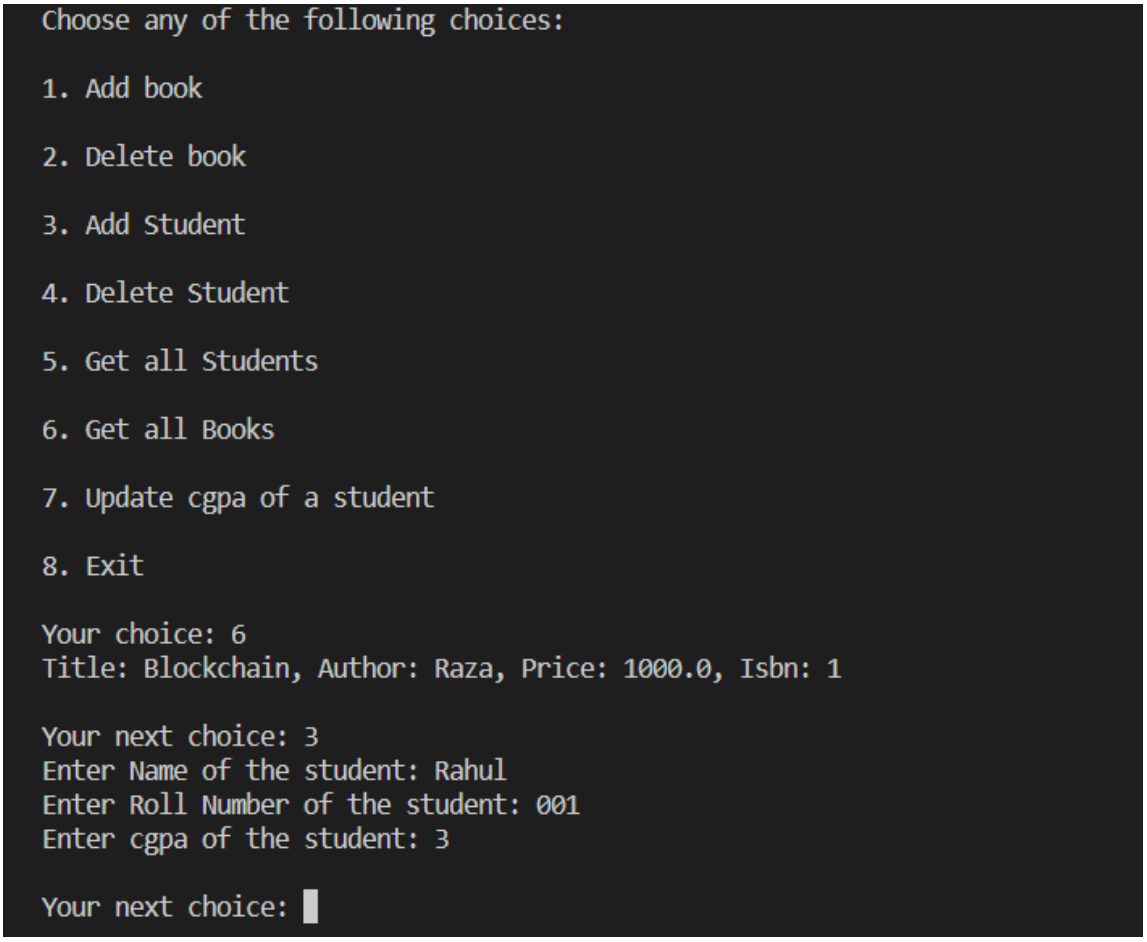
6) Add book:

```
You are logged in as a Library Owner now
Choose any of the following choices:

1. Add book

2. Delete book

3. Add Student

4. Delete Student

5. Get all Students

6. Get all Books

7. Update cgpa of a student

8. Exit

Your choice: 1
Enter Title of the book: Blockchain
Enter Author of the book: Raza
Enter price of the book: 1000
Enter isbn of the book: 1
Book has been added
```

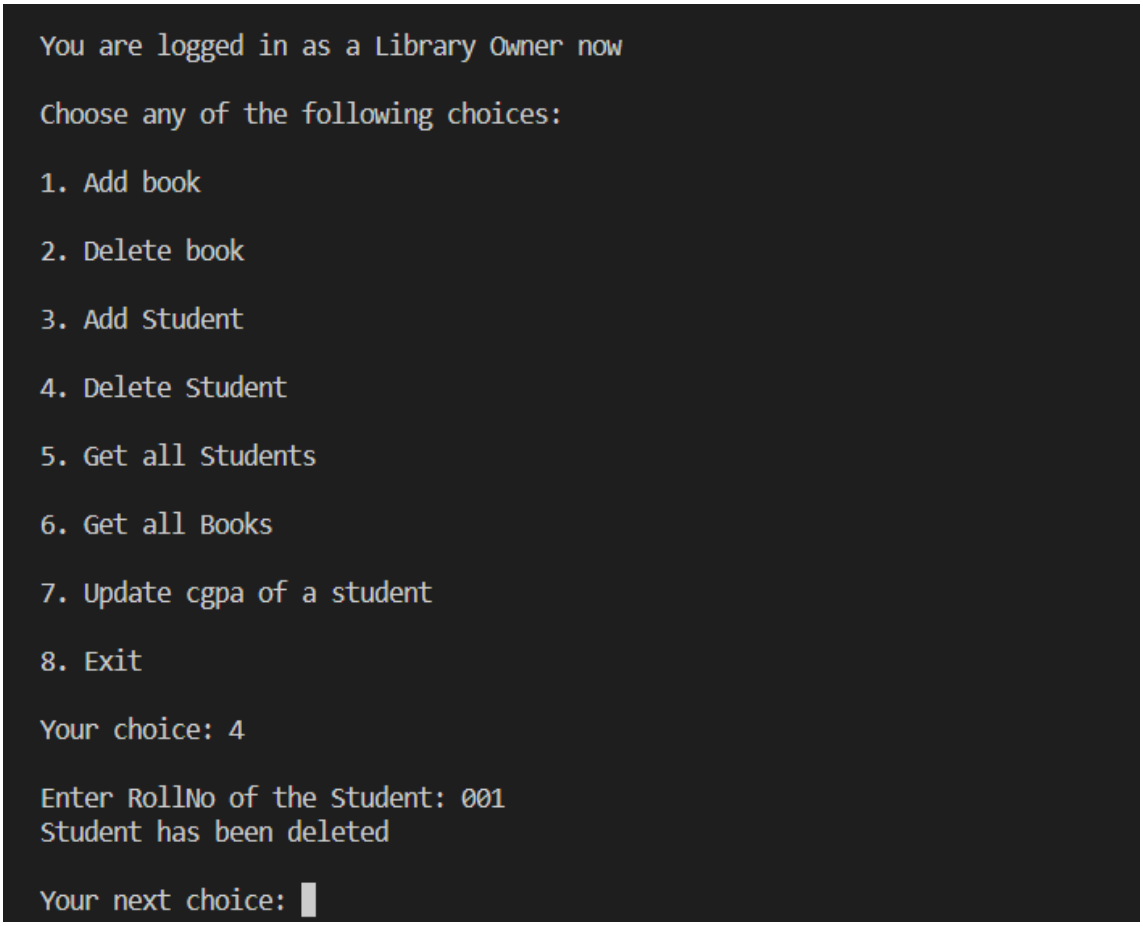
7) Delete book:



8) Add Student:



9) Delete Student:



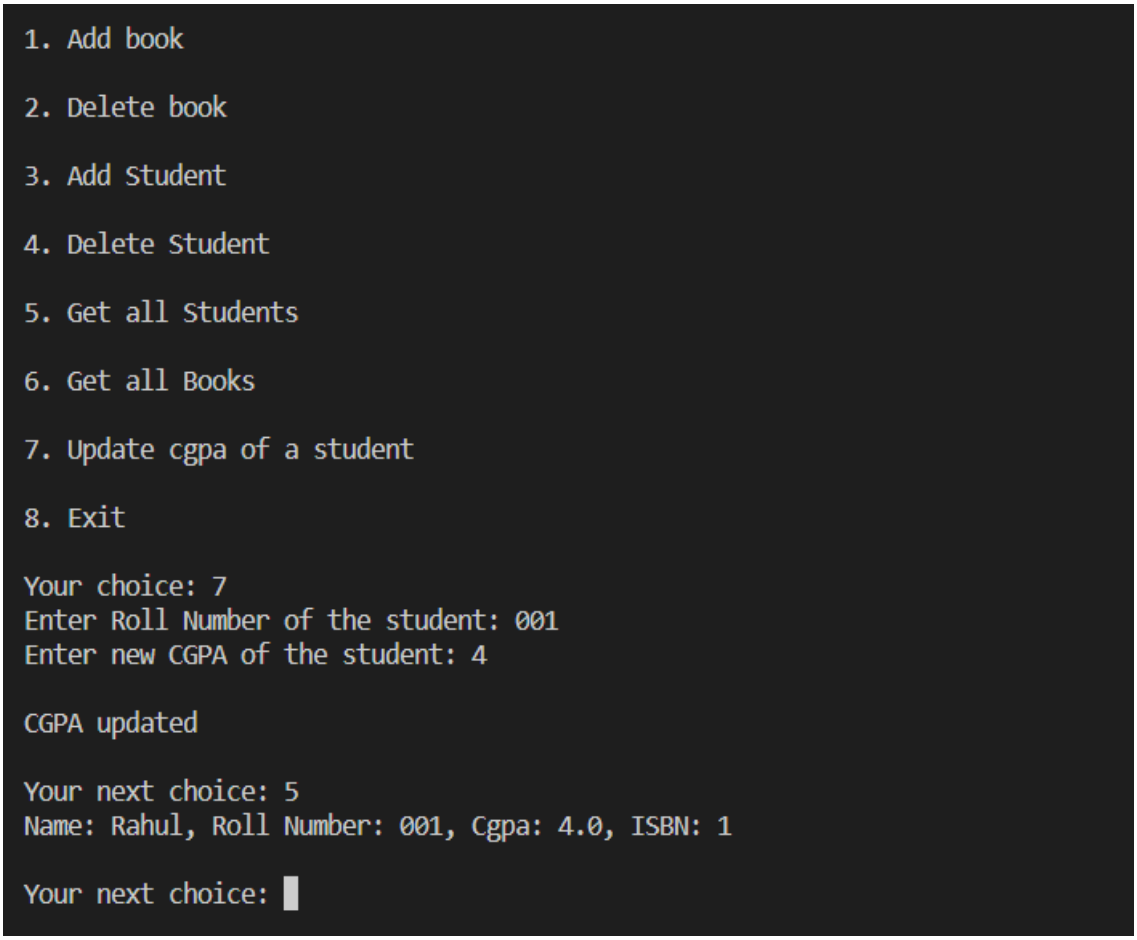
10) Get all Students:

```
You are logged in as a Library Owner now

Choose any of the following choices:

1. Add book

2. Delete book

3. Add Student

4. Delete Student

5. Get all Students

6. Get all Books

7. Update cgpa of a student

8. Exit

Your choice: 5
Name: Rahul, Roll Number: 001, Cgpa: 3.0, ISBN: 1

Your next choice:
```

11) Get all Books:

```
Choose any of the following choices:

1. Add book

2. Delete book

3. Add Student

4. Delete Student

5. Get all Students

6. Get all Books

7. Update cgpa of a student

8. Exit

Your choice: 6
Title: Blockchain, Author: Raza, Price: 1000.0, Isbn: 1
```

12) Update CGPA of Student and showing the updated CGPA:



IV) Notes and Instructions to run the code:

1. In your mysql command prompt run these commands:
   i) source creatLib.sql
   ii) source alterLib.sql
   iii) source addData.sql
2. Come out of your mysql command prompt.
3. Run the command export CLASSPATH=’$path’ where $path is the path of mysql-connector-java-8.0.18.jar

file in your system. For eg. export CLASSPATH='/home/iiitb/Desktop/session 10/mysql-connector-java-8.0.18.jar:.'

4. In IMT2020061_MainMenu.java change the username and password to your credentials of mysql command prompt.
5. Then run javac IMT2020061_MainMenu.java
6. Then run java IMT2020061_MainMenu

NOTES: In mysql command prompt, you can run source dropLib.sql to delete the database.