

ALGORITHM

Step 1: Start the program

Step 2: Initialize data structures

Create structures to store Book ID, Book Name, Author

Create arrays to store multiple book records and student details

Step 3: Display menu options

Add Book

Search Book

Issue Book

Return Book

Display All Books

Exit

Step 4: Read user choice

Step 5: If choice is Add Book

Input book details

Store details in the array

Step 6: If choice is Search Book

Input Book ID or Book Name

Use loop to search in records

Display book details if found

Step 7: If choice is Issue Book

Input student details and Book ID

Check availability

Update book status as issued

Step 8: If choice is Return Book

Input Book ID

Update book status as available

Step 9: If choice is Display All Books

Use loop to display all stored records

Step 10: Repeat steps 3–9 until user selects Exit

Step 11: Stop the program