

# 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