```
#include<iostream>
using namespace std;
int main()
{
 const int MAX_BOOKS = 100;
int booklds[MAX_BOOKS];
string bookTitles[MAX_BOOKS];
string bookAuthors[MAX_BOOKS];
bool bookStatus[MAX_BOOKS];
int bookCount = 0;
  while (true) {
    displayMenu();
    int choice;
    cin >> choice;
    switch (choice) {
       case 1:
         addBook();
         break;
       case 2:
         displayBooks();
         break;
       case 3:
         borrowBook();
         break;
```

```
case 4:
          returnBook();
          break;
        case 5:
          cout << "thank you" << endl;</pre>
          return 0;
        default:
          cout <<"error"<< endl;
     }
  }
}
void addBook() {
  if (bookCount >= MAX_BOOKS) {
     cout << "the library is full." << endl;
     return;
  }
  cout << "add a new book " << endl;
  cout << "enter the id book :";
  int id;
  cin >> id;
  for (int i = 0; i < bookCount; i++) {
     if (booklds[i] == id) {
```

```
cout << "there is book has same the id." << endl;
        return;
     }
  }
  cout << "enter the title book: ";
  string title;
  cin >> title;
  cout << "enter the name of author : ";</pre>
  string author;
  cin >> author;
  bookIds[bookCount] = id;
  bookTitles[bookCount] = title;
  bookAuthors[bookCount] = author;
  bookStatus[bookCount] = false;
  bookCount++;
  cout << "the book is add successful " << endl;
void displayBooks() {
  if (bookCount == 0) {
     cout << "the library is embity ." << endl;</pre>
     return;
```

}

```
}
  cout << "Book list" << endl;
  Cout <<ID" "Title" "Author" "Status << endl;
  for (int i = 0; i < bookCount; i++) {
     cout << bookIds[i] << " " << bookTitles[i] << " " << bookAuthors[i] << endl;
  }
}
void borrowBook() {
  if (bookCount == 0) {
     cout << "the library is embity." << endl;</pre>
     return;
  }
  cout << "Enter the ID of the book you want to borrow.: ";
  int id;
  cin >> id;
  bool found = false;
  for (int i = 0; i < bookCount; i++) {
     if (booklds[i] == id) {
       found = true;
       if (bookStatus[i]) {
          cout << "The book is borrowed" << endl;
```

```
} else {
          bookStatus[i] = true;
          cout << " The book has been successfully borrowed." << endl;</pre>
        }
        break;
     }
  }
  if (!found) {
     cout << "No book with the requested ID." << endl;
  }
}
void returnBook() {
  if (bookCount == 0) {
     cout << "the library is embity ." << endl;
     return;
  }
  cout << " Enter the ID of the book you want to return:"<<endl;</pre>
  int id;
  cin >> id;
  bool found = false;
  for (int i = 0; i < bookCount; i++) {
     if (booklds[i] == id) {
```

```
found = true;
        if (!bookStatus[i]) {
          cout << " This book is currently not available for borrowing." << endl;</pre>
        } else {
          bookStatus[i] = false;
          cout << " The book has been returned successfully" << endl;</pre>
        }
        break;
     }
  }
  if (!found) {
     cout << " No book with the requested ID << endl;
  }
}
  return 0;
}
```