import java.util.Scanner;

public class Library {

public static Scanner in = new Scanner(System.in);

public static class Book {

String Bookname;

int Booknumber;

int Bookmuch;

}

public static class Book2 {

String nameStudent;

String nameBook;

int number;

String numberStudent;

String dat;

}

public static Book[] addBooks(Book[] addBook, int startNumber, int count) {

for (int i = startNumber - count; i < startNumber; i++) {

Book Book = new Book();

System.out.println("اسم الكتاب :" + (i + 1));

Book.Bookname = in.next();

System.out.println("الكميه المتوفره منه:");

Book.Bookmuch = in.nextInt();

Book.Booknumber = (i + 1);

addBook[i] = Book;

System.out.println("لقد تم اضافه الكتاب بنجاح \*\*\*");

}

return addBook;

}

public static Book2[] borrowBook(Book2[] borrowBook, int startIndex, int bookCount, Book[]addBook) {

for (int i = startIndex; i < startIndex + 1; i++) {

Book2 pp = new Book2();

System.out.println("اسم الطالب :");

pp.nameStudent = in.next();

System.out.println("الرقم الاكاديمي :");

pp.numberStudent = in.next();

System.out.println("اسم الكتاب :");

pp.nameBook = in.next();

System.out.println("تاريخ اليوم :");

pp.dat = in.next();

pp.number = (i + 1);

if (comparison(addBook, pp.nameBook, bookCount) == true)

borrowBook[i] = pp;

else {

System.out.println("الكتاب غير موجود اعد المحاول ##");

i--;

}

}

return borrowBook;

}

public static Book[] deleteBook(Book[] addBook, int bookCount) {

System.out.println("اسم الكتاب :");

String Bookname = in.next();

for (int i = 0; i < bookCount; i++) {

if (addBook[i].Bookname.equals(Bookname)) {

for (int j = i; j < bookCount; j++) {

addBook[j].Bookname = addBook[j + 1].Bookname;

addBook[i].Booknumber = addBook[j + 1].Booknumber;

addBook[i].Bookmuch = addBook[j + 1].Bookmuch;

}

}

}

return addBook;

}

public static Book2[] ReturnBook(Book2[] ReturnBook, int startIndex) {

for (int i = startIndex; i < startIndex + 1 ; i++) {

Book2 pp = new Book2();

System.out.println("اسم الطالب :");

pp.nameStudent = in.next();

System.out.println("الرقم الاكاديمي :");

pp.numberStudent = in.next();

System.out.println("اسم الكتاب :");

pp.nameBook = in.next();

System.out.println("تاريخ اليوم :");

pp.dat = in.next();

pp.number = (i + 1);

ReturnBook[i] = pp;

}

return ReturnBook;

}

public static void PrintborrowBook(Book2[] borrowBook, Book2[]ReturnBook, int countborrowBook, int countReturnBook) {

for (int i = 0; i < countborrowBook; i++) {

for (int j = 0; j < countReturnBook; j++) {

if ((borrowBook[i].nameStudent.equals(ReturnBook[j].nameStudent))

&& (borrowBook[i].numberStudent.equals(ReturnBook[j].numberStudent))

&& (borrowBook[i].nameBook.equals(ReturnBook[j].nameBook))) {

} else {

System.out.println("اسم الطالب :" + borrowBook[i].nameStudent);

System.out.println("الرقم الاكاديمي :" + borrowBook[i].numberStudent);

System.out.println("اسم الكتاب :" + borrowBook[i].nameBook);

System.out.println("تاريخ اليوم :" + borrowBook[i].dat);

}

}

}

if (countReturnBook == 0) {

for (int i = 0; i < countborrowBook; i++) {

System.out.println("اسم الطالب :" + borrowBook[i].nameStudent);

System.out.println("الرقم الاكاديمي :" + borrowBook[i].numberStudent);

System.out.println("اسم الكتاب :" + borrowBook[i].nameBook);

System.out.println("تاريخ اليوم :" + borrowBook[i].dat);

}

}

System.out.println("0.للخروج");

int end = in.nextInt();

}

public static void Notes() {

System.out.println("1.اضافه كتاب");

System.out.println("2.استعاره كتاب");

System.out.println("3. اعاده الكتاب");

System.out.println("4.عرض الكتب المستعاره");

System.out.println("5.حذف كتاب");

System.out.println("0.للخروج");

}

public static boolean comparison(Book[] addBook, String name, int count) {

boolean g = true;

int a = 0;

for (int i = 0; i < count; i++) {

if (addBook[i].Bookname.equals(name))

a++;

}

if (a > 0) {

g = true;

} else {

g = false;

}

return g;

}

public static void Library() {

int choice;

int addBookcount = 0, countborrowBook = 0;

int countReturnBook = 0;

Book[] addBook = new Book[5000];

Book2[] borrowBook = new Book2[5000];

Book2[] ReturnBook = new Book2[5000];

do {

clearScreen();

Notes();

choice = in.nextInt();

clearScreen();

switch (choice) {

case 1:

System.out.println("عدد الكتب التى سوف تضيفها =");

int NumberOfBooksAdded = in.nextInt();

addBookcount = addBookcount + NumberOfBooksAdded;

addBook = addBooks(addBook, addBookcount, NumberOfBooksAdded);

break;

case 2:

if (addBookcount == 0) {

System.out.print("لم يتم اضافه الكتب حتى الان ##");

} else {

borrowBook = borrowBook(borrowBook, countborrowBook, addBookcount, addBook);

countborrowBook++;

}

break;

case 3:

if (countborrowBook > 0) {

ReturnBook = ReturnBook(ReturnBook, countReturnBook);

countReturnBook++;

}

break;

case 4:

PrintborrowBook(borrowBook, ReturnBook, countborrowBook, countReturnBook);

break;

case 5:

if (addBookcount > 0) {

addBook = deleteBook(addBook, addBookcount);

}

break;

case 0:

System.out.println("\*\*\*");

break;

default:

System.out.println("خطأ");

break;

}

} while (choice != 0);

}

private static void clearScreen() {

System.out.print("\033[H\033[2J");

System.out.flush();

}

public static void main(String[] args) {

Library() ;

}

}