import java.util.Scanner;

public class students {

Scanner input = new Scanner(System.in);

student theStudents[] = new student[50];

public static int count = 0;

public void addStudent(student s)

{

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

if (s.regNum.equalsIgnoreCase(

theStudents[i].regNum)) {

System.out.println(

"Student of Reg Num " + s.regNum

+ " is Already Registered.");

return;

}

}

if (count <= 50) {

theStudents[count] = s;

count++;

}

}

public void showAllStudents()

{

System.out.println("Student Name\t\tReg Number");

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

System.out.println(theStudents[i].studentName

+ "\t\t"

+ theStudents[i].regNum);

}

}

public int isStudent()

{

// Display message only

System.out.println("Enter Reg Number:");

String regNum = input.nextLine();

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

if (theStudents[i].regNum.equalsIgnoreCase(

regNum)) {

return i;

}

}

System.out.println("Student is not Registered.");

System.out.println("Get Registered First.");

return -1;

}

public void checkOutBook(books book)

{

int studentIndex = this.isStudent();

if (studentIndex != -1) {

System.out.println("checking out");

book.showAllBooks();

book b = book.checkOutBook();

System.out.println("checking out");

if (b != null) {

if (theStudents[studentIndex].booksCount

<= 3) {

System.out.println("adding book");

theStudents[studentIndex].borrowedBooks

[theStudents[studentIndex]

.booksCount]

= b;

theStudents[studentIndex].booksCount++;

return;

}

else {

System.out.println(

"Student Can not Borrow more than 3 Books.");

return;

}

}

System.out.println("Book is not Available.");

}

}

public void checkInBook(books book)

{

int studentIndex = this.isStudent();

if (studentIndex != -1) {

System.out.println(

"S.No\t\t\tBook Name\t\t\tAuthor Name");

student s = theStudents[studentIndex];

for (int i = 0; i < s.booksCount; i++) {

System.out.println(

s.borrowedBooks[i].sNo + "\t\t\t"

+ s.borrowedBooks[i].bookName + "\t\t\t"

+ s.borrowedBooks[i].authorName);

}

System.out.println(

"Enter Serial Number of Book to be Checked In:");

int sNo = input.nextInt();

for (int i = 0; i < s.booksCount; i++) {

if (sNo == s.borrowedBooks[i].sNo) {

book.checkInBook(s.borrowedBooks[i]);

s.borrowedBooks[i] = null;

return;

}

}

System.out.println("Book of Serial No " + sNo

+ "not Found");

}

}

}