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| --- |
| import java.util.Scanner;  public class main {  public static void main(String[] args) {  Scanner in = new Scanner(System.in);  String name, choice;  int bookID, borrowDays = 0;  // "database"  int book1ID = 101;  String book1Title = "book 1";  String book1Author = "author 1";  boolean book1Available = true;  String book1Borrower = "";  int book1BorrowerDays = 0;  int book2ID = 102;  String book2Title = "book 2";  String book2Author = "author 2";  boolean book2Available = true;  String book2Borrower = "";  int book2BorrowerDays = 0;  int book3ID = 103;  String book3Title = "book 3";  String book3Author = "author 3";  boolean book3Available = true;  String book3Borrower = "";  int book3BorrowerDays = 0;  int book4ID = 104;  String book4Title = "book 4";  String book4Author = "author 4";  boolean book4Available = true;  String book4Borrower = "";  int book4BorrowerDays = 0;  int book5ID = 105;  String book5Title = "book 5";  String book5Author = "author 5";  boolean book5Available = false;  String book5Borrower = "human";  int book5BorrowerDays = 3;  do {  // Main Menu  System.out.println("\n===== Menu Utama =====");  System.out.println("1. Daftar Buku");  System.out.println("2. Peminjaman Buku");  System.out.println("3. Pengembalian Buku");  System.out.println("4. Daftar Buku yang Dipinjam");  System.out.println("0. Keluar");  System.out.println("=======================");  System.out.print("Pilih menu: ");  choice = in.next();  System.out.println("=======================");  switch (choice) {  case "1":  // Daftar Buku  System.out.println("\nDaftar Buku:");  System.out.println("ID Buku: " + book1ID + "\nJudul: " + book1Title + "\nPengarang: " + book1Author  + "\nStatus: " + (book1Available ? "Tersedia" : "Dipinjam"));  System.out.println("\nID Buku: " + book2ID + "\nJudul: " + book2Title + "\nPengarang: " + book2Author  + "\nStatus: " + (book2Available ? "Tersedia" : "Dipinjam"));  System.out.println("\nID Buku: " + book3ID + "\nJudul: " + book3Title + "\nPengarang: " + book3Author  + "\nStatus: " + (book3Available ? "Tersedia" : "Dipinjam"));  System.out.println("\nID Buku: " + book4ID + "\nJudul: " + book4Title + "\nPengarang: " + book4Author  + "\nStatus: " + (book4Available ? "Tersedia" : "Dipinjam"));  System.out.println("\nID Buku: " + book5ID + "\nJudul: " + book5Title + "\nPengarang: " + book5Author  + "\nStatus: " + (book5Available ? "Tersedia" : "Dipinjam"));  break;  case "2":  // Peminjaman Buku  System.out.print("\nMasukkan nama peminjam: ");  in.nextLine(); // Consume newline  name = in.nextLine();  System.out.print("Masukkan ID buku: ");  bookID = in.nextInt();  System.out.print("Masukkan jumlah hari peminjaman: ");  borrowDays = in.nextInt();  if (bookID == book1ID && book1Available) {  book1Borrower = name;  book1BorrowerDays = borrowDays;  book1Available = false;  System.out.println(  "Buku \"" + book1Title + "\" berhasil dipinjam oleh " + name + " selama " + borrowDays + " hari.");  } else if (bookID == book2ID && book2Available) {  book2Borrower = name;  book2BorrowerDays = borrowDays;  book2Available = false;  System.out.println(  "Buku \"" + book2Title + "\" berhasil dipinjam oleh " + name + " selama " + borrowDays + " hari.");  } else if (bookID == book3ID && book3Available) {  book3Borrower = name;  book3BorrowerDays = borrowDays;  book3Available = false;  System.out.println(  "Buku \"" + book3Title + "\" berhasil dipinjam oleh " + name + " selama " + borrowDays + " hari.");  } else if (bookID == book4ID && book4Available) {  book4Borrower = name;  book4BorrowerDays = borrowDays;  book4Available = false;  System.out.println(  "Buku \"" + book4Title + "\" berhasil dipinjam oleh " + name + " selama " + borrowDays + " hari.");  } else if (bookID == book5ID && book5Available) {  book5Borrower = name;  book5BorrowerDays = borrowDays;  book5Available = false;  System.out.println(  "Buku \"" + book5Title + "\" berhasil dipinjam oleh " + name + " selama " + borrowDays + " hari.");  } else {  System.out.println("Buku tidak tersedia atau ID salah.");  }  break;  case "3":  // Pengembalian Buku  System.out.print("\nMasukkan nama peminjam: ");  in.nextLine(); // Consume newline  name = in.nextLine();  System.out.print("Masukkan ID buku: ");  bookID = in.nextInt();  if (bookID == book1ID && book1Borrower.equals(name)) {  book1Available = true;  book1Borrower = "";  System.out.println("Buku \"" + book1Title + "\" telah dikembalikan.");  } else if (bookID == book2ID && book2Borrower.equals(name)) {  book2Available = true;  book2Borrower = "";  System.out.println("Buku \"" + book2Title + "\" telah dikembalikan.");  } else if (bookID == book3ID && book3Borrower.equals(name)) {  book3Available = true;  book3Borrower = "";  System.out.println("Buku \"" + book3Title + "\" telah dikembalikan.");  } else if (bookID == book4ID && book4Borrower.equals(name)) {  book4Available = true;  book4Borrower = "";  System.out.println("Buku \"" + book4Title + "\" telah dikembalikan.");  } else if (bookID == book5ID && book5Borrower.equals(name)) {  book5Available = true;  book5Borrower = "";  System.out.println("Buku \"" + book5Title + "\" telah dikembalikan.");  } else {  System.out.println("Pengembalian gagal. Nama peminjam atau ID salah.");  }  break;  case "4":  // Daftar Buku yang Dipinjam  System.out.println("\nDaftar Buku yang Dipinjam:");  if (!book1Available) {  System.out.println("ID Buku: " + book1ID + "\nJudul: " + book1Title + "\nDipinjam oleh: " + book1Borrower  + "\nSisa hari: " + book1BorrowerDays);  }  if (!book2Available) {  System.out.println("ID Buku: " + book2ID + "\nJudul: " + book2Title + "\nDipinjam oleh: " + book2Borrower  + "\nSisa hari: " + book2BorrowerDays);  }  if (!book3Available) {  System.out.println("ID Buku: " + book3ID + "\nJudul: " + book3Title + "\nDipinjam oleh: " + book3Borrower  + "\nSisa hari: " + book3BorrowerDays);  }  if (!book4Available) {  System.out.println("ID Buku: " + book4ID + "\nJudul: " + book4Title + "\nDipinjam oleh: " + book4Borrower  + "\nSisa hari: " + book4BorrowerDays);  }  if (!book5Available) {  System.out.println("ID Buku: " + book5ID + "\nJudul: " + book5Title + "\nDipinjam oleh: " + book5Borrower  + "\nSisa hari: " + book5BorrowerDays);  }  break;  case "0":  // Exit  System.out.println("\nKeluar dari program...");  break;  default:  System.out.println("\nPilihan tidak valid.");  choice = "0";  break;  }  } while (!choice.equals("0"));  in.close();  }  } |