import Invalutil Scanner; public class main & public class static void main (Stringt) aros) { Scanner in : new Scanner (System in); String name, choice; int book 1P, borrow Days; int book 110 = 101; String book ITitle "book 1"; String book] Author = "author 1", boolean book 1 Available = frue; String book 1 Borrower = ""; int book 1 Borrow Days = 0; int book 210 = 102; String book 2 Title = "Book 2"; String book 2 Author = " Author 2"; bodeon book 2 Available = true; String book 2 Borrower = "" That book 2 Borrow Days = 0; Tht book 310 = 1037 String books Title : " Book ?" String book 3 Authors " A william 3" boolean book 3 Available a true String book ? Borrower : In + book 3 Borrow Days = 0; int book 910 = 104; String bookatitle = " Book 9" String wook a Author = " Author a"; woolean book a Avenilable = true" String wook a porrower = "" ; int host a horrower Days = 60

```
fort book 510 = 165 -
String book 5 Fitte = " Book 5";
String books Authori: "Author 5"
hoolean book & Available: true;
String book & Borrover = "human";
 The book ( Borrower Days . 3;
  40 g
    System out printin (" mneru utama");
     System. out-println(" 1- Daster buti");
     System.out. prentln(" 2 - Peningaman buthi");
     System out printin(" 3. Pengembalian buki");
     System out println (" a. Parter bute young dipingam");
     System out println (" G. policar");
      System aut - printin (" prich monu");
      choice = in-rext();
      switch (choice) &
         casp " 9" :
            System out printing ("Yor Dopper Parker);
           System out println [" ID ALEUS " + book 1/17 +" In Indul's" +
                hootel Title + "mathors" + book + Author + " in Status: "+
                ( book 1 Available ? " Parcedia" : "Pilpinjam"));
            Systemout, printin ("10 Dans: "+ book 210 + "In Judal: "+.
                 book 2 Title + "InAuthors" + wook 2 Author + "InStatuss"+
                 (book 2 Available ? "Tersedia": "Dipinjam"));
            System out-printing" 10 Butus " + book 31P + "Indudul : "+
                 book37, the + "In Authors" + book 3 Author + "In Sterluss"+
                 (book 3 Available? "Tersetia": "Dipinjam"))
            system and printin ("IP Buku: "+ book 910+ "In Judal: "+.
                 book 9Title + "In Author; " + book 9 Author + "In Statuse"+
                 ( book a ANailable ? " Terredia"; " Dipinjan "));
```

```
System out printly ("ID Buku: "+ book SID + "In Judal: "x
       books Title + "In Authors" + books Author + "In Status:
        ( book 5 Available? "Tersedia" : " Dipinjam"));
   break;
(ase "2";
  System out println (" masukan nama peminjam : ");
  in nextline ();
  name = in mext();
  System, out, printin ("magakan 11) Bute: ")",
  bootlo: in nextInt ()"
system. out. println ("masukan jumlah wert puminjamar");
   borrow Days - in hextInf ();
   IF (hook ID == hook 1 10 73 hook 1 Available) &
      book I Available = Faise.
      book 1 Borrower = name;
      work of Borrow Days = borrow Days
     System out println ("Buku t" + bookstitle +" " burbasi dipinjam olehi "+
             name + " selonna " + laxera Days + " hari");
   3 else of ( book 10 = = book 2 10 + 15 book 2 Avoidable)
       System out, println ("But " " a wook? I fe + " bother! diplayan
            oteh: " + unive + " Schone " + berrow Page + "har: ");
   3 place if (hooked = book 310 77 hook 3 Available) {
        books Available = falle;
       books borrow Days : borrow Days;
       System out pringin (" Butter " " + buok 3title + " 1" her basil dipinjan
            oleh: " + name + " Selama " + burrow Pays + " her; ") -
    I else if (book 10 = book 910 1 / book 9 Available) }
         wook gava; lable = Fallse
         book & Rorrower = name;
        Look 9 Borrower Days : borrow Days;
        System out printle ("Buku " " + more q title + " " herhail diliban
            oleh; " + name + " selama " + borrow Days + " heri");
```

```
3 else if (book ID = = book 5 10 pp book 5 Available) {
book 5 Available is also;
book 5 Burrower = hame;
      books borrow Days - Borrow Days;
       System-out-print In ("Butu 1" + hooks Title + " " herhost a pinjam oleh: "+
              hame + " selama" + borrow Days + " her; ";
 3 else &
        System out print In ("Bute tidale hersedia ortere IP Salah");
  preak,
case " ? ".
   System out println ("masukan nama puninjan: );
    in nextline();
    name-in-next Line ();
    System out printle ("magukan 10 hum; ");
     if (book 10 = = book 110 = 4 book 1 Berrower equals (name)) {
  () book 1 Available = true;
           book 1 But rower : "
           Sustem out printing book in a book stiller "" tran dikemention")"
      3 else if (book to = book 210 to a social floored counts (name)) $
            book 2 Available atting
            hook 2 Gartawer = 110.
            system out printly ("butch" " books "Title + " \" tetch altemball ton");
      3 ele IF (book 1) = book 3 (0 % & book 3 Gorrower equals (name)) &
             poor S Avalable = + vic
             book 3 Oper rower = " "
             System out orinth ("buta" + most stitle +" ("tout ditembrita")
        I else if (book 10: book 910 7 1/2 book 4 horrower equal (name)) &
              hook & Available = true
              wook 9 Borrower = " "
             System out printle ("butu"" + bootest itle + " telah ditembolikan");
```

```
3 else if (book ID = : book 510 13 to book 5 Borrover. equal (name) {
       book A voilable =+ ++++ ;
       System our Println ("Buku )" + bookstitle + ">" telah dikembalikan");
     System out pringle (" pengemboution gaget, nama atou id saleh") -
 3 else &
  break "
case "q" :
   System out. println ("In Dapter hules young diplogame");
   if ( book 1 Available ) }
       System out printle ("ID Buker: " + hook 11p + " In Judut: " +
               Book 1 Title + "In Pipinjam oleh; " + book 1 Berrower +
                "Insisar hart's " + hook & Borrower Pays);
    if (1 book 2 Available) &
      System out println ("10 Butu " + mode 210 + "In Judil: "+
     if (1 book) Available) S
        System out. Printly ("ID Busha". " + book 31p + " In Judul: " +
                book 37 itle + "In Dipinger orch" + kook 3 Borrower +
                "In Sisa har : " + hook 3 Parrower Pays);
      (F ( 1 Sook & Availeble) }
         systemout println ("10 Putu " "+ bookalb + "In Judal" "+
                book 4 Title + "In Dipinjam oleh: "+ hook 4 Borrower +
                "Insisa hari; " + book 4 Borrower Pays);
      25
```

```
IF (! book SAvailable) }
        System out printin ("10 Buku: "+ hook 510 + "In Judiel: "+
                 book 5 Title + "In Pipinjam oleh : " + book 5 Borrower +
                 "In Sisa hari: " + book & Borrower Days )"
    break;
  Case "O":
     System out println ("In Kelvar dori program ");
     break;
  defoult
     system out. println (" pil. hon tidak valid");
      choice - "o" "
      break;
3 while (', choire equals ("0")
in close ();
```

```
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 + book5Borrower + book5Title + "\nDipinjam oleh: " + book5Borrower + book5Title + "\nDipinjam oleh: " + book5Borrower + book5Title + "\nDipinjam oleh: " + book5Borrower + book5Borrower + 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();
}
```