

```
import java.util.Scanner;
```

```
public class main {
```

```
    public class static void main(String[] args) {
```

```
        Scanner in = new Scanner(System.in);
```

```
        String name, choice;
```

```
        int bookID, borrowDays;
```

```
        int book1ID = 101;
```

```
        String book1Title = "book 1";
```

```
        String book1Author = "author 1";
```

```
        boolean book1Available = true;
```

```
        String book1Borrower = "";
```

```
        int book1BorrowDays = 0;
```

```
        int book2ID = 102;
```

```
        String book2Title = "Book 2";
```

```
        String book2Author = "Author 2";
```

```
        boolean book2Available = true;
```

```
        String book2Borrower = "";
```

```
        int book2BorrowDays = 0;
```

```
        int book3ID = 103;
```

```
        String book3Title = "Book 3";
```

```
        String book3Author = "Author 3";
```

```
        boolean book3Available = true;
```

```
        String book3Borrower = "";
```

```
        int book3BorrowDays = 0;
```

```
        int book4ID = 104;
```

```
        String book4Title = "Book 4";
```

```
        String book4Author = "Author 4";
```

```
        boolean book4Available = true;
```

```
        String book4Borrower = "";
```

```
        int book4BorrowDays = 0;
```

```
int bookSID = 165;  
String bookSTitle = "Book 5";  
String bookSAuthor = "Author 5";  
boolean bookSAvailable = true;  
String bookSBorrower = "human";  
int bookCBorrowerDays = 3;
```

```
do {
```

```
    System.out.println("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("  5. Keluar");  
    System.out.println("Pilih menu: ");
```

```
    choice = in.next();
```

```
    switch (choice) {
```

```
        case "1":
```

```
            System.out.println("Daftar Buku");
```

```
            System.out.println("ID Buku: " + book1ID + "\nJudul: " +  
                book1Title + "\nAuthor: " + book1Author + "\nStatus: " +  
                (book1Available ? "Tersedia" : "Dipinjam"));
```

```
            System.out.println("ID Buku: " + book2ID + "\nJudul: " +  
                book2Title + "\nAuthor: " + book2Author + "\nStatus: " +  
                (book2Available ? "Tersedia" : "Dipinjam"));
```

```
            System.out.println("ID Buku: " + book3ID + "\nJudul: " +  
                book3Title + "\nAuthor: " + book3Author + "\nStatus: " +  
                (book3Available ? "Tersedia" : "Dipinjam"));
```

```
            System.out.println("ID Buku: " + book4ID + "\nJudul: " +  
                book4Title + "\nAuthor: " + book4Author + "\nStatus: " +  
                (book4Available ? "Tersedia" : "Dipinjam"));
```

```
System.out.println("ID Buku: " + bookSID + "\nJudul: " +  
bookTitle + "\nAuthor: " + bookAuthor + "\nStatus: " +  
(bookAvailable ? "Tersedia" : "Dipinjam"));
```

```
break;
```

```
case "2":
```

```
System.out.println("masukan nama peminjam: ");
```

```
in.nextLine();
```

```
name = in.next();
```

```
System.out.println("masukan ID Buku: ");
```

```
bookID = in.nextInt();
```

```
System.out.println("masukan jumlah hari peminjaman: ");
```

```
borrowDays = in.nextInt();
```

```
if (bookID == book1ID && book1Available) {
```

```
book1Available = false;
```

```
book1Borrower = name;
```

```
book1BorrowDays = borrowDays;
```

```
System.out.println("Buku \" + book1Title + \" berhasil dipinjam oleh: \" +  
name + \" selama \" + borrowDays + \" hari");
```

```
} else if (bookID == book2ID && book2Available) {
```

```
book2Available = false;
```

```
book2Borrower = name;
```

```
book2BorrowDays = borrowDays;
```

```
System.out.println("Buku \" + book2Title + \" berhasil dipinjam  
oleh: \" + name + \" selama \" + borrowDays + \" hari");
```

```
} else if (bookID == book3ID && book3Available) {
```

```
book3Available = false;
```

```
book3Borrower = name;
```

```
book3BorrowDays = borrowDays;
```

```
System.out.println("Buku \" + book3Title + \" berhasil dipinjam  
oleh: \" + name + \" selama \" + borrowDays + \" hari");
```

```
} else if (bookID == book4ID && book4Available) {
```

```
book4Available = false;
```

```
book4Borrower = name;
```

```
book4BorrowDays = borrowDays;
```

```
System.out.println("Buku \" + book4Title + \" berhasil dipinjam  
oleh: \" + name + \" selama \" + borrowDays + \" hari");
```



```

} else if (bookID == book5ID) {
    book5Available = true;
    book5Borrower = "";
    System.out.println("Buku \\" + book5Title + "\" telah dikembalikan");
} else {
    System.out.println("pengembalian gagal, nama atau id salah");
}
break;

```

case "4":

```

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);
}

```



```
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("ID Buku: " + book2ID + "\nJudul: " + book2Title + "\nPengarang: " + book2Author
        + "\nStatus: " + (book2Available ? "Tersedia" : "Dipinjam"));
    System.out.println("ID Buku: " + book3ID + "\nJudul: " + book3Title + "\nPengarang: " + book3Author
        + "\nStatus: " + (book3Available ? "Tersedia" : "Dipinjam"));
    System.out.println("ID Buku: " + book4ID + "\nJudul: " + book4Title + "\nPengarang: " + book4Author
        + "\nStatus: " + (book4Available ? "Tersedia" : "Dipinjam"));
    System.out.println("ID 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();
}
}
```