```
import java.io.*;
public class question71
    String books[]={"Taiko", "Rich Dad Poor Dad", "Kafka on the Shore", "",
    ""};//creating a library of 3 books and a capacity of maximum 5 books
String authors[]={"Eiji Yoshikawa", "Robert Kiyosaki", "Haruki Murakami", "",
    int issuedbooks[]=\{0,0,0,0,0,0\}; //0 means not issued, 1 means issued
    int noofbooksissued=0;
    String password="needsoup2020";
    void display()
        System.out.println("BOOK_NAME\t\tAUTHOR_NAME\t\tISSUING_STATUS");
        for(int i=0;i<5;i++)
            if(!books[i].equals(""))//! signifies a negative condition..so this means
                 System.out.println(books[i]+"\t~\t"+authors[i]+"\t~ "+issuedbooks[i]);
    void issuebook()throws IOException
        InputStreamReader read=new InputStreamReader(System.in);
        BufferedReader in=new BufferedReader(read);
        if(noofbooksissued>3)
            System.out.println("Maximum number of books issued");
        else
             System.out.println("Enter the name of the book to issue:");
            String book=in.readLine();
             for(int i=0;i<5;i++)
                 if(book.equalsIgnoreCase(books[i]) && issuedbooks[i]==0)//if the book is
                     issuedbooks[i]=1;
                     noofbooksissued++;
                     System.out.println("Book issued");
                     break;
    void returnbook()throws IOException
        InputStreamReader read=new InputStreamReader(System.in);
        BufferedReader in=new BufferedReader(read);
        if(noofbooksissued==0)
            System.out.println("No books issued yet");
        else
            System.out.println("Enter the name of the book to return:");
```

```
String book=in.readLine();
        for(int i=0;i<5;i++)
            if(book.equalsIgnoreCase(books[i]) && issuedbooks[i]==1)//if the book is
                issuedbooks[i]=0;
                noofbooksissued--;
                System.out.println("Book returned");
                break;
void addbook()throws IOException
    InputStreamReader read=new InputStreamReader(System.in);
    BufferedReader in=new BufferedReader(read);
    System.out.println("Enter the password:");
    String pwd=in.readLine();
    if(pwd.equals(password))
        System.out.println("Enter the name of the book to add:");
        String book=in.readLine();
        System.out.println("Enter the name of the author to add:");
        String author=in.readLine();
        for(int i=0;i<5;i++)
            if(books[i].equals(""))
                books[i]=book;
                authors[i]=author;
                System.out.println("Book added");
                break:
    else
        System.out.println("Access Denied");
void removebook()throws IOException
    InputStreamReader read=new InputStreamReader(System.in);
    BufferedReader in=new BufferedReader(read);
    System.out.println("Enter the password:");
    String pwd1=in.readLine();
    if(pwd1.equals(password))
        System.out.println("Enter the name of the book to remove:");
        String book=in.readLine();
        for(int i=0;i<5;i++)
            if(book.equalsIgnoreCase(books[i]))
                books[i]="";
                authors[i]="";
                System.out.println("Book removed");
                break;
```

```
else
        System.out.println("Access Denied");
public static void main(String args[])throws IOException
    InputStreamReader read=new InputStreamReader(System.in);
    BufferedReader in=new BufferedReader(read);
    question71 ob=new question71();
    int n;
    do
        System.out.print("Enter \n1. Display all books \n2. Issue a book \n3. Return
        a book \n4. Add a book to the library \n5. Remove a book from the library
        \n0. Exit \nEnter ->");
        n=Integer.parseInt(in.readLine());
        switch(n)
            case 1:
            ob.display();
            break;
            case 2:
            ob.issuebook();
            break;
            case 3:
            ob.returnbook();
            break;
            case 4:
            ob.addbook();
            break;
            case 5:
            ob.removebook();
            break:
    }while(n!=0);
```