

Practical 4

CODE:

```
import java.util.*;
class Library
{
    Scanner sc = new Scanner(System.in);

    String s_name;
    String account_no;
    int no_books;
    int fine_amount;
    Library()
    {
        s_name = "";
        account_no = "";
        no_books = 0;
        fine_amount = 0;
    }
    Library assign_values(Library obj)
    {
        System.out.println("Enter the name of the student: ");
        obj.s_name = sc.nextLine();
        System.out.println("Enter Number of books in posession: ");
        obj.no_books = sc.nextInt();
        System.out.println("Enter the Students account number: ");
        obj.account_no = sc.next();
        fine(obj);
        return obj;
    }
    void issue(Library obj)
    {
        obj.no_books +=1;
        System.out.println("You just issued a book.");
    }
    void return_bk(Library obj)
    {
        obj.no_books -=1;
        System.out.println("You just returned a book.");
    }
    void fine(Library obj)
    {
        System.out.println("For Student: "+obj.s_name);
        System.out.println("Enter no. of books overdue: ");
        int books = sc.nextInt();
        System.out.println("Enter no. of days overdue: ");
        int days = sc.nextInt();
    }
}
```

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int fine_amt = days*books*2;
System.out.println("Fine calculated");
obj.fine_amount = fine_amt;
}
static void display(Library ob)
{
    System.out.println("=====");
    System.out.println("Name of Student: "+ob.s_name);
    System.out.println("Account number : " + ob.account_no);
    System.out.println("Number of books in possession: "+ob.no_books);
    System.out.println("Fine: "+ob.fine_amount);
    System.out.println("=====");
}
public static void main(String args[])
{
    Library std1 = new Library();
    Library std2 = new Library();
    Library std3 = new Library();
    std1.assign_values(std1);
    std2.assign_values(std2);
    std3.assign_values(std3);
    int f1 = std1.fine_amount;
    int f2 = std2.fine_amount;
    int f3 = std3.fine_amount;
    if (f1 > f2 && f1>f3)
    {
        display(std1);
        if(f2>=f3)
        {
            display(std2);
            display(std3);
        }
        else
        {
            display(std3);
            display(std2);
        }
    }
}
else if (f2 > f3 && f2>f1)
{
    display(std2);
    if(f1>=f3)
    {
        display(std1);
        display(std3);
    }
}

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        else
        {
            display(std3);
            display(std1);
        }
    }
    else
    {
        display(std2);
        if(f1>=f3)
        {
            display(std1);
            display(std3);
        }
        else
        {
            display(std3);
            display(std1);
        }
    }
}
}
}

```

OUTPUT:

C:\Users\Govind Thakur\Desktop\JavaPracs>javac Library.java

C:\Users\Govind Thakur\Desktop\JavaPracs>java Library

Enter the name of the student:

Govind

Enter Number of books in posession:

5

Enter the Students account number:

2344

For Student: Govind

Enter no. of books overdue:

5

Enter no. of days overdue:

2

Fine calculated

Enter the name of the student:

Harsh

Enter Number of books in posession:

4

Enter the Students account number:

3456

For Student: Harsh

Enter no. of books overdue:

8

Enter no. of days overdue:

10

Fine calculated

Enter the name of the student:

Hrishi

Enter Number of books in posession:

5

Enter the Students account number:

6578

For Student: Hrishi

Enter no. of books overdue:

4

Enter no. of days overdue:

3

Fine calculated

=====

Name of Student: Harsh

Account number :3456

Number of books in posession: 4

Fine: 160

=====

=====

Name of Student: Hrishi

Account number :6578

Number of books in posession: 5

Fine: 24

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Name of Student: Govind

Account number :2344

Number of books in posession: 5

Fine: 20

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