Practical 4

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();

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 posession: "+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);

}

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

=============================

==================================================

Name of Student: Govind

Account number :2344

Number of books in posession: 5

Fine: 20

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