

~~the CGPA is of 8.65~~

~~E8.10~~

Lab Program -3 15th Oct 2024

Create a class Book which contains four members: name, author, price, num pages. Include a constructor to set the values for the members. Include a constructor to set the values for the members.

Include a toString() method that could display the complete details of the book. Develop a Java program to create n book objects.

Book.java

class Book {

private String name, author;  
private float price;  
private int num-pages;

Book (String name, String  
author, float price,  
int num-pages)

{

this.name = name;  
this.author = author;  
this.price = price;  
this.num-pages = num-pages;

3

public void setName()

public void setName(String name)

{ this.name = name;

public void setPrice(float price)

{ this.price = price;

public void setAuthor(String author)

{ this.author = author;

public void setNumPages(int page)

{ this.num-pages = page;

3

public int getNumPages()

{ return num-pages;

3

public float getPrice() {

    return price;

}

public String getName()

    return name;

}

public String getNumPages()

    return numPages;

}

@Override

public String toString()

    return "the name is " + name

    " the price is " + price

    " the owner of book

    is " + author

    " the no. of pages is "

    numPages;

}

3

Main.java

import java.util.Scanner;  
public class Main {  
 }

public static void main  
 (String[] args)  
 {

Book books[];

System.out.println ("Enter  
 the amount of books  
 you want to enter");

Scanner scan = new Scanner  
 (System.in);

int n = scan.nextInt();

books = new Book[n];

for (int i = 0; i < n; i++) {

System.out.println ("Enter  
 the details for Book no." +  
 (i + 1));

books[i] = new Book (  
 scan.next());

System.out.println("Enter  
name author price and  
number of pages ");

books[i] = new Book(Scan.nextInt()  
Scan.nextLine(), Scan.nextFloat()  
Scan.nextInt());

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System.out.println("Now the  
details of the entered books  
are : ");

for (int i = 0; i < n; i++) {

System.out.println(~~(books[i])~~  
books[i]);

11 demo of getter and setter

Book b1 = new Book("ram",  
"Shyam", 123.23,

(20));

System.out.println(b1);

b1.setName("Karan");

b1.setPrice(423.45);

```
b1.setNumPages(500);  
System.out.println("Book Name:  
" + b1.getName());  
System.out.println(b1);
```

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O/p:-

enter the amount of books you  
want to enter ~~2~~

2

enter the details for Book no. 1  
enter name author price and  
number of pages

gram shyam 123.321 450

enter the details for Book no. 2

enter name author price and  
number of pages

trans prism 953.21 500

Now the details of the entered  
books are:-

the name is giam the price  
is 123.321 the author of  
book is shyam the no. of pages  
is 450

the name is trans the price  
~~book~~ is 453.21 the author  
of book is prism the no. of  
pages is 500

Karan

the name is karan the price  
is 423.45, the author of book  
is ~~prism~~ shyam the no. of pages  
is 500

ok See