

the sgpa is 8.65

8.10

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;
```

?

```
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 setNum-pages(int page)
```

```
    { this.num-pages = page;
```

```
    }
```

```
    public void int getNum-pages()
```

```
    { return num-pages;
```

```
    }
```

```
public float getPrice() {
```

```
    return price;  
}
```

```
public String getName() {
```

```
    return name;  
}
```

```
public String getNum-pages() {
```

```
    return num-pages;  
}
```

(a) Override

```
public String toString() {
```

```
    return "the name is " + name +  
        " the price is " + price +  
        " the author of book  
        is " + author +  
        " the no. of pages is " +  
        num-pages;  
}
```

```
}
```

```
}
```

```
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.next()  
scan.next(), scan.nextFloat()  
scan.nextInt());
```

}

```
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]);
```

}

// demo of getter and setter

```
Book b1 = new Book("ram",  
"Shyam", 123, 23,  
120);
```

```
System.out.println(b1);
```

```
b1.setName("karan");
```

```
b1.setPrice(423, 45);
```

```
b1.setNum-pages(500);
```

```
System.out.println(book1.getName()  
b1.getName());
```

```
System.out.println(b1);
```

3

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O/p:-

enter the amount of books you want to enter

2

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

ram shyam 123.321 450

enter the details for Book no. 2

enter name author price and number of pages

ram pram 453.21 500

Now the details of the entered books are:-

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

the name is trans the price
~~and~~ 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

O/b Seen