

Week-4

Shreshtha Aggarwal

18719CS155



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Lab-3

Q → Create a class Book which contains four members: name, author, price, num. pages. Include methods to set and get the details of the objects. Include a constructor to set the values for the members. Include a toString method to display. Develop a Java program to create 10 book objects.

```
import java.util.*;
```

```
class Book {
```

```
    String name;
```

```
    int numPages;
```

```
    String author;
```

```
    double price;
```

```
    Book (String a, int e, String c, double d) {
```

```
        name = a;
```

```
        numPages = e;
```

```
        author = c;
```

```
        price = d;
```

```
    }
```

```
    void getData() {
```

```
        Scanner in = new Scanner(System.in);
```

```
        System.out.println("Enter title: ");
```

```
        name = in.next();
```

```
        System.out.println("Enter no. of pages: ");
```



```
num-pages = in.nextInt();  
System.out.println("Enter author:");  
author = in.next();  
System.out.println("Enter price:");  
price = in.nextDouble();
```

}

```
public String toString() {  
    return ("Book title: " + name + " No.  
    of pages: " + num-page + " Author: " +  
    author + " Price: " + price);
```

}

}

```
class Series {
```

```
    public static void main(String args[]) {  
        Scanner in = new Scanner(System.in);  
        int l = 0;
```

```
        String a = "", c = "";
```

```
        double d = 0.0;
```

```
        System.out.println("Enter no. of books:");
```

```
        int n = in.nextInt();
```

```
        Book b[] = new Book[n];
```

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

```
            b[i] = new Book(a, c, c, d);
```

```
            System.out.println("In ");
```

```
            b[i] = getData();
```




}

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

System.out.println(b[i]);

}

}

}

O/P →

Enter no. of books :

1

Enter book title : a

Enter No. of pages in book : 12

Enter author's name : sdf

Enter price of book (in Rupees) : 234

Book title : a

No. of pages in book : 12

Author's name : sdf

Price of book (in Rupees) : 234



Algorithm →

- ① Create constructor to set variables.
- ② Input name, author, no. of pages & price for each book.
- ③ Return all the details.
- ④ Display the details of the books.
- ⑤ End.