

19/10/2024

LAB-3

Q. Write a program using appropriate methods and classes to describe the details of a book.

```
import java.util.Scanner;
```

```
class Book {
```

```
    String name, author;
```

```
    double price;
```

```
    int noPage;
```

```
    Book(String name, String author, double price, int noPage) {
```

```
        this.name = name;
```

```
        this.author = author;
```

```
        this.price = price;
```

```
        this.noPage = noPage; }
```

```
    void setDetails() {
```

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

```
        s.o.p("Enter name of book: ");
```

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

```
        s.o.p("Enter author name: ");
```

```
        author = sc.next();
```

```
        s.o.p("Enter price: ");
```

```
        price = sc.nextDouble();
```

```
        s.o.p("Enter number of pages: ");
```

```
        noPages = sc.nextInt(); }
```

```
    void getDetails() {
```

```
        s.o.p("Name of book: " + name);
```

```
        s.o.p("Author of book: " + author);
```

```
        s.o.p("Price of book: " + price);
```

```
        s.o.p("Number of pages: " + noPages); }
```

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

```
        return "Book name: " + name + "\n" + "Author: " + author + "\n"
```

```
        + "Price: " + price + "\n" + "No. of pages: " + noPages + "\n"; }
```

```
}
```

```
Class MyBook {
```

```
    public static void main(String[] args)
```

```
    {
```

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

```

s.o.p. ("Enter number of books: ");
int n = sc.nextInt();
Book[] books = new Book[n];
for (int i = 0; i < n; i++) {
    books[i] = new Book();
    books[i].setDetails();
    books[i].getDetails();
}
s.o.p. ("\n All Book Details:");
for (Book book : books) {
    s.o.p. (book);
}
}

```

output:

Enter number of books: 1

Enter details for book 1

Enter name of book: One Indian Girl

Enter author name: Chetan Bhagat

Enter price of book: 400

Enter number of pages: 350

Name of book: One Indian Girl

Author: Chetan Bhagat

Price: 400.0

Number of pages: 350

All book details:

Book name: One Indian Girl

Author: Chetan Bhagat

Price: 400.0

Number of pages: 350

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```

import java.util.Scanner;
class Book {
    String name, author;
    double price;
    int noPage;
    Book() {}
    Book(String name, String author, double price, int noPage) {
        this.name = name;
        this.author = author;
        this.price = price;
        this.noPage = noPage;
    }
    void setDetails() {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter name of book: ");
        name = sc.nextLine();
        System.out.println("Enter author name: ");
        author = sc.nextLine();
        System.out.println("Enter price of book: ");
        price = sc.nextDouble();
        System.out.println("Enter number of pages: ");
        noPage = sc.nextInt();
    }
    void getDetails() {
        System.out.println("Name of book: " + name);
        System.out.println("Author: " + author);
        System.out.println("Price: " + price);
        System.out.println("Number of pages: " + noPage);
    }
    public String toString() {
        return "Book name: " + name + "\n" + "Author: " + author + "\n" + "Price: " + price + "\n"
+ "Number of pages: " + noPage + "\n";
    }
}
class MyBook {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter number of books: ");
        int n = sc.nextInt();
        sc.nextLine();
        Book[] books = new Book[n];
        for (int i = 0; i < n; i++) {
            books[i] = new Book();
            System.out.println("Enter details for book " + (i + 1));
            books[i].setDetails();
            books[i].getDetails();
        }
        System.out.println("All book details: ");
        for (Book book : books) {
            System.out.println(book);
        }
    }
}

```



```
}  
}  
}
```

```
C:\Windows\System32\cmd.exe X + v  
Microsoft Windows [Version 10.0.22011.2861]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\317>javac MyBook.java  
  
C:\317>java MyBook  
Enter number of books:  
2  
Enter details for book 1  
Enter name of book:  
Atomic Habits  
Enter author name:  
James Clear  
Enter price of book:  
488  
Enter number of pages:  
350  
Name of book: Atomic Habits  
Author: James Clear  
Price: 488.0  
Number of pages: 350  
Enter details for book 2  
Enter name of book:  
Twilight  
Enter author name:  
Stephenie Mayer  
Enter price of book:  
1000  
Enter number of pages:  
900  
Name of book: Twilight  
Author: Stephenie Mayer  
Price: 1000.0  
Number of pages: 900  
All book details:  
Book name: Atomic Habits  
Author: James Clear  
Price: 488.0  
Number of pages: 350  
  
Book name: Twilight  
Author: Stephenie Mayer  
Price: 1000.0  
Number of pages: 900  
  
C:\317>
```