

Lab-③ - 25/12/2023

Lab Program 3: Create a class Book which contains four members: name, author, price, num-pages. Include a constructor to set the values for the members. Include methods to set and get the details of the objects. Include a toString() method that could display the complete details of the ~~obj~~ book. Develop a Java program to create n book objects.

Source code:

```
import java.util.Scanner;  
class Book  
{  
    String name;  
    String author;  
    int price;  
    int numPages;  
    Book(String name, String author, int price,  
        int numPages)  
    {  
        this.name = name;  
        this.author = author;  
        this.price = price;  
        this.numPages = numPages;  
    }  
    public String toString()  
    {  
        String name, author, price, numPages;  
        name = "Book name: " + this.name + "\n";  
        author = "Author name: " + this.author + "\n";  
        price = "Book Price: " + this.price + "\n";  
    }  
}
```

```

numPages = "Number of Pages: " + the.numPages + "n";
return (name + author + price + numPages);
}

```

```

}
class Main BooksMain
{

```

```

    public static void main (String args[])
    {

```

```

        Scanner s = new Scanner(System.in);

```

```

        int n;

```

```

        String name;

```

```

        String author;

```

```

        int price;

```

```

        int numPages;

```

```

        int i;

```

```

        System.out.println("Enter the number of books  
to be entered.");

```

```

        n = s.nextInt();

```

```

        s.nextLine();

```

```

Books

```

```

        Books[] b = new Books[n];

```

```

        System.out.println("n");

```

```

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

```

```

        {
            System.out.println("Enter the name of the  
book " + (i+1));

```

```

            name = s.nextLine();

```

```

            System.out.println("Enter the name  
of the author of the book " + (i+1));

```

```

            author = s.nextLine();

```

```

            System.out.println("Enter the price  
of the book " + (i+1));

```

```

            price = s.nextInt();

```

```

            s.nextLine();
        }
    }
}

```



```

System.out.println("Enter the number
of pages in the book " + (i + 1));
numPages = s.nextInt();
s.nextLine();
b[i] = new Book(name, author, price,
numPages); System.out.println("The book
details are: " + "n");
for (i = 0; i < n; i++)

```

```

System.out.println(
b[i].toString() + "n");
}
}
}

```

## OUTPUT

Enter the number of books to be entered.  
3

Enter the name of the book 1

Warrior's Stilton

Enter the name of the author of the book 1

Elizabethan Day

Enter the price of book 1

300

Enter the number of pages in the book 1

130

Enter the name of the book 2  
Pony Jackson

Enter the name of the author of the book 2  
Rick Riordan

Enter the price of the book 2  
5.00

Enter the number of pages in the book 2  
300

Enter the name of the book 3

Harry Potter

Enter the name of the author of the book 3

J. K. Rowling

Enter the price of the book 3

5.00

Enter the number of pages in the book 3

300

The book details are:

Book name: Heronimo Stalkon

Author name: Elizabetha Damin

Book Price: 3.00

Number of Pages: 150

Book Name: ~~Harry Potter~~ Rick Riordan

Author name: ~~J. K. Rowling~~ Rick Riordan

Book Price: 5.00

Number of pages: 300

Rm  
2/1/2024

Book Name: Harry Potter  
Author Name: J K Rowling  
Book Price: 500  
Number of Pages: 500