

24/12/23

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 objects. Include toString() method that would display the complete details of the books.

```
import java.util.Scanner;  
class Books {
```

```
    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 = "price" + this.price + "\n";  
        numPages = "no. of pages" + this.numPages +  
            "\n";
```

```
        return name + author + price + numPages;  
    }
```

y


```

public class Main {
    public static void main (String args[]) {
        Scanner s = new Scanner (System.in);
        int n;
        String name;
        String author;
        int price;
        int numPages;

        System.out.println ("Enter no. of books ");
        n = s.nextInt();

        Book[] books = new Book[n];
        for (int i=0; i<n; i++) {
            System.out.println ("Enter details  
for book " + (i+1) + ": ");
            System.out.println ("Name:");
            name = s.next();
            System.out.println ("Author:");
            author = s.next();
            System.out.println ("Price");
            price = s.nextInt();
            System.out.println ("Number of pages");
            numPages = s.nextInt();
            books[i] = new Book (name, author, price,
                                numPages);
        }

        System.out.println ("\n Book details:");
        for (int i=0; i<n; i++) {
            System.out.println (books[i].toString());
        }
    }
}

```


→ output

Enter the number of books 2

Enter details for book 1:

Name:

Dracula

Author

Stoker

Price

340

No. of pages

560

Enter details for book 2

Name:

Frankenstein

Author:

Shelly

Price:

523

No. of pages

560

Book details:

→ Book name: Dracula

Author name: Stoker

price: 340

no. of pages: 560

→ Book name: Frankenstein

Author name: Shelly

price: 523

no. of pages: 456

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