

26/12/23 Lab program ③

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

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

```
class Book {
    String name;
    String author;
    int price;
    int numPages;
```

```
    public Book(String name, String author, int price,
                int numPages) {
        this.name = name;
        this.author = author;
        this.price = price;
        this.numPages = numPages;
```

```
}
```

```
    public void set(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 = "Book name: " + this.name + "\n";
    String author = "Author name: " + this.author + "\n";
    String price = "price: " + this.price + "\n";
    String numPages = "Number of pages: " + this.numPages + "\n";
}

```

```

    return name + author + price + numPages;
}

```

```

public String getName() {
    return this.name;
}

```

```

public String getAuthor() {
    return this.author;
}

```

```

public int getPrice() {
    return this.price;
}

```

```

public int getNumberOfPages() {
    return this.numPages;
}

```

```

public class Main {

```

```

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter number of books: ");
        int n = sc.nextInt();
    }

```

```

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

```

```
for (int i=0; i<n; i++) {
    System.out.print("Enter " + (i+1) + " Book name,
        author name, price and number of pages:");
    String name = sc.next();
    String author = sc.next();
    int price = sc.nextInt();
    int numofpages = sc.nextInt();
```

```
    b[i] = new Book(name, author, price, numPages);
}
```

```
for (int i=0; i<n; i++) {
    System.out.println(b[i].toString());
}
```

Output:-

Enter number of books : 2

Enter 1 book name, author name, price and number
of pages : book1 Siri 1400 68

Enter 2 book name, author name, price and number
of pages : book2 Santosh 1600 70.

~~Book name : book1~~

~~Author name : siri~~

~~Price : 1400~~

~~Number of pages : 68~~

Book name : book2

Author name : santosh

Price : 1600

Number of pages : 70

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