

26/12/2023

LAB PROGRAM no:3

BooksMain:

```
→ import java.util.*;  
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;
```

```
String getname() {
```

```
    return name;
```

```
String getauthor() {
```

```
    return author;
```

```
}
```

~~```
String getprice() {
```~~~~```
    return price;
```~~~~```
int getnum() {
```~~~~```
    return numpages;
```~~

void setname (String name){
 this.name = name;
}

void setauthor (String author){
 this.author = author;
}

void setprice (int price){
 this.price = price;
}

void setnum (int numpages){
 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 = "Number of pages:" + this.numpages
 + "\n";

 return name + author + price + numpages;

}

public class BooksMain {
 public static void main (String args[])

 Scanner s = new Scanner (System.in);
 int n, price, numpages;

```
String name, author;
System.out.println ("Enter n");
n = s.nextInt();
Book b[];
b = new Book[n];
System.out.println ("By toString method:");
for (int i=0; i<n; i++) {
    System.out.print ("Enter Book name, author  
name, price and number of pages");
    name = s.next();
    author = s.next();
    price = s.nextInt();
    numPages = s.nextInt();
    b[i] = new Book(name, author, price, numPages);
}
for (int i=0; i<n; i++) {
    String bookDetails = b[i].toString();
    System.out.println (bookDetails);
}
System.out.println ("By get & set methods");
for (int i=0; i<n; i++) {
    System.out.println ("Enter Book details");
    name = s.
    System.out.print ("Enter Book name, author  
name, price & no of pages");
    name = s.next();
    b[i].setname();
    author = s.next();
    b[i].setauthor();
}
```

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```
    price = s.nextInt();
    b[i].setprice();
    numpages = s.nextInt();
    b[i].setnum();
```

{}

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

```
    System.out.println("Book name :" + b[i].getname());
    System.out.println("Author name :" + b[i].getauthor());
    System.out.println("price :" + b[i].getprice());
    System.out.println("nor of pages :" + b[i].getnum());
```

{}

```
System.out.println("NAME : Shivaraj K. Pujari");
System.out.println("USN : IBM22CS259");
```

{}

Output :-

Enter n

1

By toString method

Enter book name :

Chemistry

Enter author name:

Shivaraj

Enter price :

2000

Enter nor of pages :

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Book name: Chemistry

Author name: Shivaraj

Price: 2000

No. of pages: 150

By get & set methods

Enter book name:

Biology

Enter Author name:

Anu

Enter price:

5000

Enter no. of pages:

193

Books name: Biology

Author name: Anu

Price: 5000

No. of pages: 193

NAME: Shivaraj K. Pujari

OSN: IBM22CS259

26/10/23