

### Book database

- 1) Create a class Book that contains four members: name, author, price and 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 book. Develop a Java program to create n book objects.

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

```
public class Book {
```

```
    String name;
```

```
    String author;
```

```
    int price, 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 = "number of pages:" + this.numpages + "\n";
```

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

```

class main {
public static void main (String args[]) {
    Scanner s = new Scanner (System.in);
    int n;
    String name, author;
    int price, numpages;
    System.out.println ("Enter the number of books:");
    n = s.nextInt();
    books b [];
    b = new books [n];
    for (int i = 0; i < n; i++) {
        System.out.println ("book " + (i+1) + ":");
        System.out.println ("enter name of the book:");
        name = s.next();
        System.out.println ("enter name of the author:");
        author = s.next();
        System.out.println ("enter price:");
        price = s.nextInt();
        System.out.println ("enter name of pages:");
        numpages = s.nextInt();
        b[i] = new books (name, author, price, numpages);
        for (j = 0; j < n; j++) {
            System.out.println ("Book " + (i+1) + ": /n" + b[i]);
        }
    }
}
}

```

Output: enter the no of book: 1

Book 1:

enter the number of the book: Jungle book

enter the author of the book: Rudyard

enter the price of the book: 1000

enter the number of pages of the book: 500

Book name: Jungle book

Author: Rudyard kipling

price: 1000

Number of pages: 500

## BOOK DETAILS

```
import java.util.Scanner;
class Book{
    private String name;
    private String author;
    private double price;
    private int num_pages;

    Book(String name,String author,double price,int num_pages){
        this.name=name;
        this.author=author;
        this.price=price;
        this.num_pages=num_pages;
    }

    public void setName(String name){
        this.name=name;
    }
    public void setAuthor(String author){
        this.author=author;
    }
    public void srtPrice(double price){
        this.price=price;
    }
    public void setNum_Pages(int num_pages){
        this.num_pages=num_pages;
    }

    public String getName(){
        return name;
    }
    public String getAuthor(){
        return author;
    }
    public double getPrice(){
        return price;
    }
    public int getNum_Pages(){
        return num_pages;
    }

    @Override
    public String toString(){
        return "Book Details:\n" +
            "Name: " + name + "\n" +
            "Author: " + author + "\n" +
```



## BOOK DETAILS

```
        "Price: " + price + "\n" +
        "Number Of pages:: "+ num_pages;
    }

}

public class BookDetails {
    public static void main( String argra[]){
        int n;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter number of books:");
        n=sc.nextInt();
        Book [] books=new Book[n];
        for(int i=0;i<n;i++){
            System.out.println("Enter details of book "+(i+1) +":");
            System.out.println("Name:");
            String name=sc.next();
            System.out.println("Author:");
            String author=sc.next();
            System.out.println("Price:");
            double price=sc.nextDouble();
            System.out.println("Number of pages:");
            int num_pages=sc.nextInt();
            books[i]=new Book(name,author,price,num_pages);

        }

        for(Book b:books){
            System.out.println(b); //
System.out.println(b.toString);
        }

    }
}
```

OUTPUT :

```
Enter number of books:
2
Enter details of book 1:
Name:
```

## BOOK DETAILS

Harry Potter

Author:

Rowling

Price:

250

Number of pages:

500

Enter details of book 2:

Name:

Two Cities

Author:

Charle

Price:

100

Number of pages:

250

Book Details:

Name: Harry Potter

Author: Rowling

Price: 250.0

Number Of pages: 500

Book Details:

Name: Two Cities

Author: Charle

Price: 100.0

Number Of pages: 250