

// create a class Book which contains four members: name, author, price, numPages. Include a constructor to set the values for the members. Include a constructor to set the 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;
```

```
class Books {
```

```
    String name;
```

```
    String author;
```

```
    this int price;
```

```
    int numPages;
```

```
    void Books(String name, String author, int price,
               int numPage) {
```

```
        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 =
```



```

public string toString() {
    string bookDetails = "Book name: " + this.name
                        + "\n"
                        + "Author name: " + this.author + "\n"
                        + "Price: " + this.price + "\n"
                        + "Number of pages: " + this.numPages + "\n";
    return bookDetails;
}

```

9

```

public class lab3 {
    public static void main (String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter the number of books:");
        int n = scanner.nextInt();

        Book[] books = new Book[n];

        for (int i = 0; i < n; i++) {
            System.out.print("Enter name of the book");
            scanner.nextLine();
            String name = scanner.nextLine();

            System.out.print("Enter author of the book:");
            scanner.nextLine();
            String author = scanner.nextLine();

            System.out.print("Enter the price of book:");
            int price = scanner.nextInt();

            System.out.print("Enter the number of pages of
                                the book: ");

```



```
int numPages = Scanner.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("Book " + (i+1) + " : \n" +  
books[i]);
```

```
}
```

```
}
```

```
}
```

Sample output :

Enter number of pages Books : 2

Enter name of the book : the Legend

Enter name of author : unknown

Enter price of the book : 999

Enter number of pages of book : 420

Enter name of the book : Mergul: days

Enter author name of book : Shankar nag

Enter price of the book : 1000

Enter number of pages of book : 500

Book Details :

Book 1 :

Book name : the Legend

author name : unknown

price : 999

numb. of pages : 420

Book 2 :

Book name : Mergul: day 5

author name : Shankar nag

price : 1000

number of pages : 500

26/11/23