

LAB 3) Create a class Book which contains 4 members: name, number, price, num-pages. Include a constructor to set values for members. Include methods to get & get details of the objects. Include a toString() method that could display the complete details of book. Develop a Java program to create n book objects.

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

```
class Books {
```

```
    String name;
```

```
    String author;
```

```
    int price;
```

```
    int numPages;
```

```
    public Books(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;
```

```
    }
```

```
String getName() {  
    this.name = name;  
}
```

```
String getAuthor() {  
    this.author = author;  
}
```

```
String getPrice() {  
    this.price = price;  
}
```

```
String getNumPages() {  
    this.numPages = numPages;  
}
```

```
}  
class main {
```

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

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

```
        Books b[];
```

```
        b = new Books[n];
```

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

```
            System.out.println("Enter name of book " + (i+1) + ":");  
            name = s.nextLine();
```

```
            System.out.println("Enter author of book " + (i+1) + ":");  
            author = s.nextLine();
```

```
system.out.println("Enter price of book " + (i+1) + ":");
price = S.nextInt();
system.out.println("Enter no. of pages of book " + (i+1) + ":");
numPages = S.nextInt();
S.nextLine();
b[i] = new Books (name, author, price, numPages);
}
for (i=0; i<n; i++) {
    String bookDetails = b[i].toString();
    system.out.println(bookDetails);
}
for (int i=0; i<n; i++) {
    system.out.println("Book " + (i+1) + ":");
    system.out.println("Name: " + b[i].getName());
    system.out.println("Author: " + b[i].getAuthor());
    system.out.println("Price: " + b[i].getPrice());
    system.out.println("No. of Pages: " + b[i].getNumPages());
    system.out.println("*****");
}
system.out.println("Sanjeet P. Pandit \n BM221242");
}
```


o/p:

Enter no. of books

2

Enter the name of book 1:

Da Vinci Code

Enter Author of book 1:

Dan Brown

Enter price of book 1:

499

Enter no. of pages of book 1:

350

Enter the name of book 2:

Harry Potter

Enter the price of book 2:

JK Rowling

Enter price of book 2:

499

Enter no. of pages of book 2:

500

Book 1:

Name : Da Vinci Code

Author : Dan Brown

Price : 499

No. of Pages : 350

Book 2:

Name : Harry Potter

Author : JK Rowling

Price : 499

No. of Pages : 500

Sanjeet P. Pandit

IBN2255242

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