

OOJ Lab Program-3

Create a class Book which contains four members: name, author, price, 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.*;

class Book {
    String name;
    String author;
    int price;
    int num_pages;
    Book()
    {}
    Book(String name,String author,int price,int num_pages)
    {
        this.name=name;
        this.author=author;
        this.price=price;
        this.num_pages=num_pages;
    }
    void accept()
    {
        Scanner s=new Scanner(System.in);
        System.out.println("Enter the name of the book");
```

```

        name=s.next();
        System.out.println("Enter the author of the book");
        author=s.next();
        System.out.println("Enter the price of the book");
        price=s.nextInt();
        System.out.println("Enter the number of pages of the book");
        num_pages=s.nextInt();
    }
    public String toString()
    {
        return ("Name: "+name + "\n" + "Author: "+author + "\n" + "Price:
"+price + "\n" + "Number of pages: "+num_pages );
    }
}

class BookMain1 {
    public static void main(String ss[])
    {
        Scanner a=new Scanner(System.in);
        Book b1=new Book("Heights","Anne",299,345);
        System.out.println("Sample input:\n"+b1);
        System.out.println("Enter the number of books");
        int n=a.nextInt();
        Book b[]=new Book[n];
        for(int i=0;i<n;i++)
        {
            b[i]=new Book();
            System.out.println("\nEnter the details of book" +(i+1));

```

```
        b[i].accept();
    }
    for(int i=0;i<n;i++)
    {
        System.out.println("\nDetails of book "+(i+1));
        System.out.println(b[i]);
    }
}
}
```

OUTPUT:

```
C:\Users\win10\Documents\Java lab programs>javac BookMain1.java
```

```
C:\Users\win10\Documents\Java lab programs>java BookMain1
```

```
Sample input:
```

```
Name: Heights
```

```
Author: Anne
```

```
Price: 299
```

```
Number of pages: 345
```

```
Enter the number of books
```

```
3
```

```
Enter the details of book1
```

```
Enter the name of the book
```

```
Sunshine
```

```
Enter the author of the book
```

```
John
```

```
Enter the price of the book
```

```
100
```

```
Enter the number of pages of the book
```

```
788
```

```
Enter the details of book2
```

```
Enter the name of the book
```

```
Crystal
```

```
Enter the author of the book
```

```
Henry
```

```
Enter the price of the book
```

```
200
```

```
Enter the number of pages of the book
```

```
500
```

```
Enter the details of book3
```

```
Enter the name of the book
```

```
King
```

```
Enter the author of the book
```

```
Rahul
```

```
Enter the price of the book
```

```
900
```

```
Enter the number of pages of the book
```

```
100
```

Details of book 1

Name: Sunshine

Author: John

Price: 100

Number of pages: 788

Details of book 2

Name: Crystal

Author: Henry

Price: 200

Number of pages: 500

Details of book 3

Name: King

Author: Rahul

Price: 900

Number of pages: 100