LAB Program - 3

Create a class Book which contains four members. Include a constructor. Develop a Java program to create n book objects

```java
import java.util.Scanner;

class Books
{
    String name;
    String author;
    int price;
    int numPages;
    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 = "Number of pages : " + this.numPages + " \n ";
        return name + author + price + numPages;
    }
}

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

```java
{
    Scanner s = new Scanner (System.in);
    int n;
    int i;
    String name, author;
    int price, numPages;
    System.out.println ("Enter the number of books : ");
    n = s.nextInt();
    Books b[];
    b = new Books [n];
    for (i=0; i<n; i++)
    {
        System.out.println ("Enter the details of book " + (i+1)+
        System.out.println ("Enter the name of the book : ");
        name = s.next();
        System.out.println ("Enter the author name : ");
        author = s.next();
        System.out.println ("Enter the price : ");
        price = s.nextInt();
        System.out.println ("Enter the number of pages : ");
        numPages = s.nextInt();
        b[i] = new Books (name, author, price, numPages);
    }
    System.out.println ("Book Details : ");
    for (i=0; i<n ; i++)
    {
        System.out.println (b[i]);
    }
}
}
```

Output:

Enter the number of books: 2
Enter the details of book 1:
Enter the name of the book: BhagavadGita
Enter the author name: Krishna
Enter the price: 100
Enter the number of pages: 1000
Enter the details of book 2:
Enter the name of the book: Ramayana
Enter the author name: Valmiki
Enter the price: 200
Enter the number of pages: 2000

Book Details:
Book name: BhagavadGita
Author name: Krishna
Price: 100
Number of pages: 1000

Book name: Ramayana
Author name: Valmiki
Price: 200
Number of pages: 2000

26/12/23