LAKSHMI S KUMAR

1BM19CS078

LAB 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.

```java
import java.util.*;
import java.lang.*;
class Book
{
    String name;
    String author;
    double price;
    int num_pages;
    public void getdetails()
    {
        Scanner x=new Scanner(System.in);
        System.out.println("Enter Book Details");
        System.out.println("Enter Book Name:");
        name=x.next();
        System.out.println("Enter the Author");
        author=x.next();
        System.out.println("Enter the Price of the book");
        price=x.nextDouble();
        System.out.println("Enter the number of pages in the book");
        num_pages=x.nextInt();
    }

    public String toString()
    {
        return("BOOK DETAILS*"+"\nThe name of the book : "+name+"\nThe author
of the book :"+author+"\nThe price of the book: "+price+"\nNumber of pages in
book :"+num_pages);
    }

}
class Main{
    public static void main(String args[])
    {
        int i,n;
        Scanner x=new Scanner(System.in);
        System.out.println("Enter the number of books");
        n=x.nextInt();
        Book b[]=new Book[n];
```

```java
        for (i=0;i<n;i++)
        {
            b[i]=new Book();
            b[i].getdetails();

        }
        for(i=0;i<n;i++)
        {
            System.out.println(b[i]);
        }


    }
}
```

```
Enter Book Details
Enter Book Name:
ABC
Enter the Author
EFG
Enter the Price of the book
20
Enter the number of pages in the book
60
Enter Book Details
Enter Book Name:
abc
Enter the Author
efg
Enter the Price of the book
20
Enter the number of pages in the book
60
BOOK DETAILS*
The name of the book : ABC
The author of the book :EFG
The price of the book: 20.0
Number of pages in book :60
BOOK DETAILS*
The name of the book : abc
The author of the book :efg
The price of the book: 20.0
Number of pages in book :60


...Program finished with exit code 0
Press ENTER to exit console
```

```java
import java.util.*
import java.lang
class book
{
    String name;
    String author
    double price;
    int num pages
    Public void get details ()
    {
        Scanner x = new Scanner (System.in);
        System.out.println ("Enter Book Details");
        System.out.println ("Enter Book Name: ");
        name = x.next();
        System.out.println ("Enter the Author");
        author = x.next();
        System.out.println ("Enter the Price of the book");
        num_pages = x.nextInt();
    }

    public String to String ()
    {
        return ("Book details *" + "\n The name of the book
        "name + "\n The book :" + name + "\n The author of the
        book :" + price + "\n Number of pages in book. " + num
        pages in book. " + num_pages
    }
}

class Main
    public static void main (string arg [])
    {
        intin;
        Scanner x = new Scanner (system.in
```

Lakshmi-S-kumar
1BM19CS078

```
System.out.println ("Enter the number of books");
    n = x.nextInt();
    Book b[] = new book [n];
    for (i= 0; i<n; i++)
    {
        System.out.print (b[i]);
    }
    }
}
```