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.

2/12/'22

Program 3

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```java
import java.util.Scanner;

class Book
{
    String name;
    String author;
    double price;
    int num_pages;

    Book ()
    {
        name = "x";
        author = "y";
        price = 0.0;
        num_pages = 0;
    }

    void get ()
    {
        Scanner sc = new Scanner (System.in);
        System.out.println ("Enter the name of the
```

```java
Book ");
name = SC.next ();
System.out.println(" Enter the Author of the book");
author = sc.next();
System.out.println ("Enter the Price of the book").
price = sc.nextInt() nextDouble();
System.out.println (" Enter the number of pages of
                              the book");
num_pages = sc.nextInt();
}


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


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

```
for (int i=0; i<n; i++)
{
    b[i]= new Book();
    System.out.println("Enter Book" + (i+1)+"
    details");
    b[i].get();
}

for (int i=0; i<n; i++)
{
    System.out.println("Book " + (i+1)+ " :");
    System.out.println(b[i]);
}
}
}
```

Output:

Enter the number of Books
2
Enter Book 1 details
Enter the name of the Book
IndiaStory
Enter the Author of the Book
Bimal
Enter the price of the Book
500
Enter the number of pages of the book
300
Enter Book 2 details
Enter the Name of the Book
JavaProgramming

Enter the Author of the Book
Deeksha
Enter the price of the book
1000
Enter the Number of pages of the book
1000
Book 1:
Name of the book: IndianStory
Author of the book: Bimal
the Price of the book: 500.0
Number of pages of the book: 300
Book 2:
Name of the book: Java Programming
Author of the book: Deeksha
The Price of the book: 501000.0
Number of pages of the book: 1000

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Output:

```
Command Prompt

Microsoft Windows [Version 10.0.19045.2251]
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C:\Users\bmsce>cd C:\Users\bmsce\Desktop\1BM21CS048\OOJ lab

C:\Users\bmsce\Desktop\1BM21CS048\OOJ lab>set path="C:\Program Files\Java\jdk-9.0.1\bin"

C:\Users\bmsce\Desktop\1BM21CS048\OOJ lab>javac Prog3.java

C:\Users\bmsce\Desktop\1BM21CS048\OOJ lab>java Main3
Enter the number of Books
2
Enter Book 1 details
Enter the Name of the book
IndianStory
Enter the Author of the book
Bimal
Enter the Price of the book
500
Enter the Number of pages of the book
300
Enter Book 2 details
Enter the Name of the book
JavaProgramming
Enter the Author of the book
Deeksha
Enter the Price of the book
1000
Enter the Number of pages of the book
1000
Book 1 :
Name of the book : IndianStory
Author of the book : Bimal
The Price of the book : 500.0
Number of pages of the book : 300
Book 2 :
Name of the book : JavaProgramming
Author of the book : Deeksha
The Price of the book : 1000.0
Number of pages of the book : 1000

C:\Users\bmsce\Desktop\1BM21CS048\OOJ lab>
```