Lab Program 3:

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 and 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.Scanner;

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

    Book () {
        this.name = "";
        this.author = "";
        this.price = 0.0;
        this.num_pages = 0;
    }

    Book (String n, String a, double p, int np) {
        this.name = n;
        this.author = a;
        this.price = p;
        this.num_pages = np;
    }
```
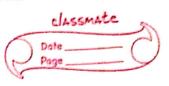
```java
public void setName (string name){
    this.name = name;
}


public void setAuthor (String name){
    this.author = author;
}


public void setPrice (double price){
    this.price = price;
}


public void setNumPages (int num_pages){
    this.num_pages = num_pages;
}


public string getName (){
    return this.name;
}


public string getAuthor (){
    return this.author;
}


public string getPrice (){
    return this.price;
}


public int getNumPages (){
    return this.num_pages;
}
```

```java
public String toString() {
    return ("Details :\n" + "Name of the
        book:" + this.name + "\n Name
        of the author:" + this.author
        + "\n Price of the book :" +
        this.price + "\n Number of
        pages:" + this.num_pages);
    }
}

class BookMain {

    public static void main(String[] args){
        int n;
        System.out.print("Enter the number
                            of books \t");
        Scanner in = new Scanner(System.in);
        n = in.nextInt();
        Book[] b = new Book[n];

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

            b[i] = new Book();
            Scanner input=new Scanner(System.in);

            System.out.println("Enter the name
                                of the book");
            b[i].setName(input.nextLine());
            System.out.println("Enter the
            name of the author of the book");
            b[i].setAuthor(input.nextLine());
            System.out.println("Enter the price
                                of the book");
```

```
        b[i].setPrice(input.nextDouble());
        System.out.println("Enter the number
                    of pages of the book");
        b[i].setNumPages(input.nextInt());

    }


    for(int j=0; j<n; j++){
        System.out.println("The details of the
        book " + (j+1) + " are as follows:");
        System.out.println(b[j].toString());
    }
  }
}
```