Lab programme 3

```java
import java.util.Scanner;

class Book {
    private String name;
    private String author;
    private int price,num_pages;
    Scanner sc=new Scanner(System.in);

    Book(){
        name="I am ";
        author="nastre";
        price=200;
        num_pages=225;
    }

    public void setData()
    {

        System.out.println("Enter name,author,price,number of pages");
        name=sc.nextLine();
        author= sc.nextLine();
        price=sc.nextInt();
        num_pages=sc.nextInt();

    }

    public String getName() {
        return name;
    }

    public String getAuthor() {
        return author;
    }

    public int getPrice() {
        return price;
    }

    public int getNum_pages() {
        return num_pages;
    }
    public String toString()
    {
        return (name+" "+author+" "+price+" "+num_pages);
    }

}
```

```java
class BookInfo{

    public static void main(String[] args) {
        Scanner sct=new Scanner(System.in);
        System.out.println("enter number of books ");
        int n=sct.nextInt();
        Book[] booksInfo=new Book[n];
        for(int i=0;i<n;i++)
        {
            booksInfo[i]=new Book();
            booksInfo[i].setData();

        }



        for(int i=0;i<n;i++) {
            System.out.println("details of the book"+(i+1)+" are : ");
            System.out.println(booksInfo[i].getName());
            System.out.println(booksInfo[i].getAuthor());
            System.out.println(booksInfo[i].getPrice());
            System.out.println(booksInfo[i].getNum_pages());
            System.out.println("details through tostringmethod : "+booksInfo[i]);
        }
    }


}
```

OUTPUT

LAB PROGRAMME - 3

Q. Create a class Book which contains four members; name, author, price, num_pages. Include a constructor to set the values for members. Include methods to set and get the details of the objects. Include a to string() method that display details. Create n book objects

```java
import java.util.Scanner;
class Book {

private String name;
private String author;
private int price, num_pages;
Scanner sc = new Scanner(System.in);

Book() {
    name = "I don't love you anymore";
    author = "Nastre";
    price = 200;
    num_pages = 225;
}

public void setData()
{   System.out.println("Enter name, author, price, pages");
    name = sc.nextLine();
    author = sc.nextLine();
    price = sc.nextInt();
    num_pages = sc.nextInt();
}
```

```java
public String getName(){
    return name;
}

public String getAuthor(){
    return author;
}

public int getPrice(){
    return price;
}

public int getNumPages(){
    return num_pages;
}

public String toString()
{
    return (name +" "+ author +" "+ price +" "+ num_pag
}

}

class BookInfo {
    public static void main(String[] args){
        Scanner sct = new Scanner(System.in);
        System.out.println("Enter number of books");
        int n = sct.nextInt();
        Book[] booksInfo = new Book[n];
```

```java
for (int i=0; i<n; i++)
{
        booksInfo[i] = new Book();
        booksInfo[i].setData();
}

for (int i=0; i<n; i++) {
    System.out.println("Details of book"(i+1)+ "are:");

    System.out.println(booksInfo[i].getName());
    System.out.println(booksInfo[i].getAuthor());
    System.out.println(booksInfo[i].getPrice());
    System.out.println(booksInfo[i].getNumPages());
    System.out.println("Details printed through to
    string method :\n" + booksInfo[i]);

    }

}

}
```

Output:
Enter number of books
2
Enter name, author, price, number of pages of book1
ABC   NASTRE   123   IIII
Enter name, author, price, number of pages of book 2
DEF   ASTE   450   122

details of book1 are:
abc
NASTRE
123
IIII

details through tostring method: abc nastre 123 IIII

details of book2 are:
def
Pastre
1233
1234

details through to string method; def pastre 1233 12;

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