

JAVA 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. Explore toString method usage in java

Code:

```
import java.util.Scanner;

class book
{
    String name;
    String author;
    int num_pages;
    int price;
    book(String name,String author,int num_pages,int price)
    {
        this.name=name;
        this.author=author;
        this.num_pages=num_pages;
        this.price=price;
    }
    public String toString()
    {
        String name,author,num_pages,price;
        name="Book name:"+this.name+"\n";
        author="Author:"+this.author+"\n";
        num_pages="Number of pages:"+this.num_pages+"\n";
```

```

        price="price:"+this.price+"\n";
        return name+author+num_pages+price;
    }
}

class bookdemo
{
    public static void main(String a[])
    {
        Scanner s=new Scanner(System.in);
        int n;
        String name;
        String author;
        int price;
        int num_pages;
        System.out.println("Enter number of books:");
        n=s.nextInt();
        book b[]=new book[n];
        for(int i=0;i<n;i++)
        {
            System.out.println("Enter book details:");
            System.out.println("Enter name:");
            name=s.next();
            System.out.println("Enter author:");
            author=s.next();
            System.out.println("Enter number of pages:");
            num_pages=s.nextInt();
            System.out.println("Enter price:");

```

```
        price=s.nextInt();
        b[i]=new book(name,author,num_pages,price);
    }
    for(int i=0;i<n;i++)
    {
        System.out.println("Book"+i+"Details:");
        System.out.println(b[i]);
    }
}
```

Output:

```
Enter number of books:
2
Enter book details:
Enter name:
Infinity
Enter author:
Akshay
Enter number of pages:
100
Enter price:
25
Enter book details:
Enter name:
Camlin
Enter author:
Anag
Enter number of pages:
200
Enter price:
40
Book0Details:
Book name:Infinity
Author:Akshay
Number of pages:100
price:25

Book1Details:
Book name:Camlin
Author:Anag
Number of pages:200
price:40
```