

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.

```
import java.util.*;

class Book

{

private String name,author;

private double price;

private int num_pages;


Book()

{

name="Meluha";

author="Amish";

price=499.00;

num_pages=565;

}


void getDetails()

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter the name of the book:");

name=sc.nextLine();

System.out.println("Enter the author of the book:");

author=sc.nextLine();

System.out.println("Enter the price of the book:");

price=sc.nextDouble();

System.out.println("Enter the number of pages of the book:");

num_pages=sc.nextInt();

}
```

```

public String toString()
{
    String temp="Book name:"+name+"\nAuthor:"+author+"\nPrice:"+price+"\nNumber of
    pages:"+num_pages+"\n";
    return (temp);
}
}

```

```

class lab3
{
    public static void main(String args[])
    {
        int i,n;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number of books");
        n=sc.nextInt();
        Book[] obj=new Book[n];
        for(i=0;i<n;i++)
        {
            obj[i]=new Book();
        }
        System.out.println("Enter the book details");
        for(i=0;i<n;i++)
        {
            System.out.println("Book"+(i+1)+"':"");
            obj[i].getDetails();
        }
        System.out.println("Book details are");
        for(i=0;i<n;i++)
        {

```

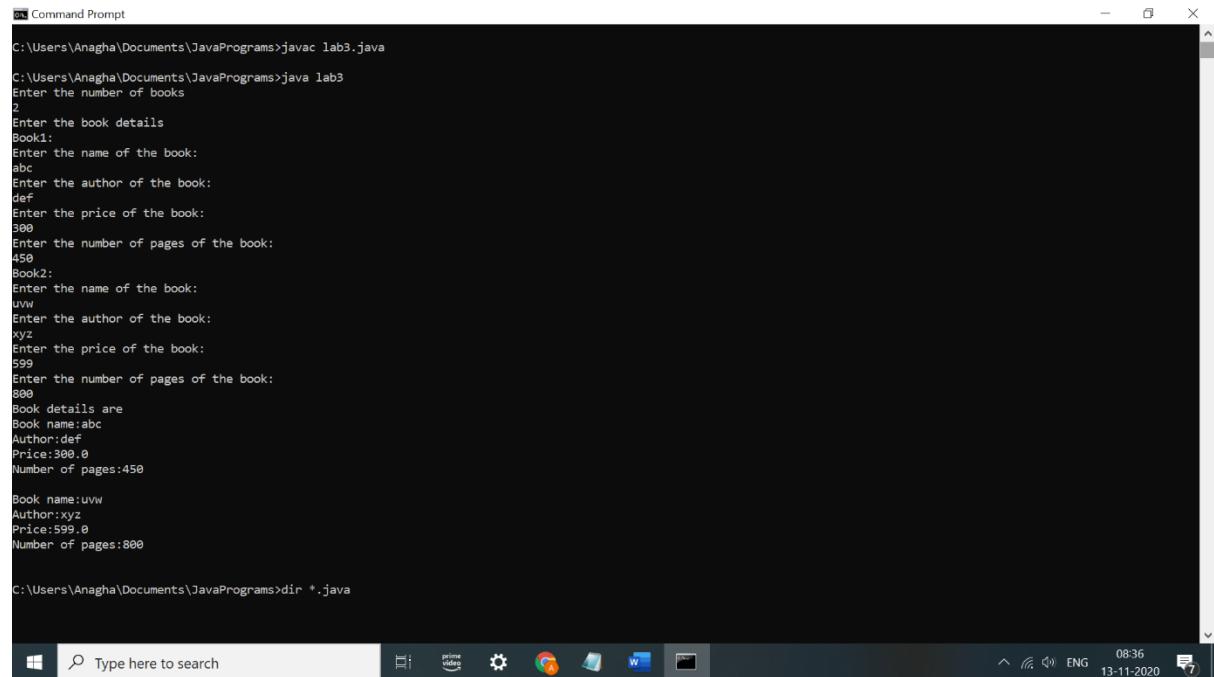
```
System.out.println(obj[i]);
```

```
}
```

```
}
```

```
}
```

OUTPUT:



```
Command Prompt
C:\Users\Anagha\Documents\JavaPrograms>javac lab3.java
C:\Users\Anagha\Documents\JavaPrograms>java lab3
Enter the number of books
2
Enter the book details
Book1:
Enter the name of the book:
abc
Enter the author of the book:
def
Enter the price of the book:
300
Enter the number of pages of the book:
450
Book2:
Enter the name of the book:
uvw
Enter the author of the book:
xyz
Enter the price of the book:
599
Enter the number of pages of the book:
800
Book details are
Book name:abc
Author:def
Price:300.0
Number of pages:450

Book name:uvw
Author:xyz
Price:599.0
Number of pages:800

C:\Users\Anagha\Documents\JavaPrograms>dir *.java
```