

Date: 6/11/2020
USN:1BM19CS216

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 object

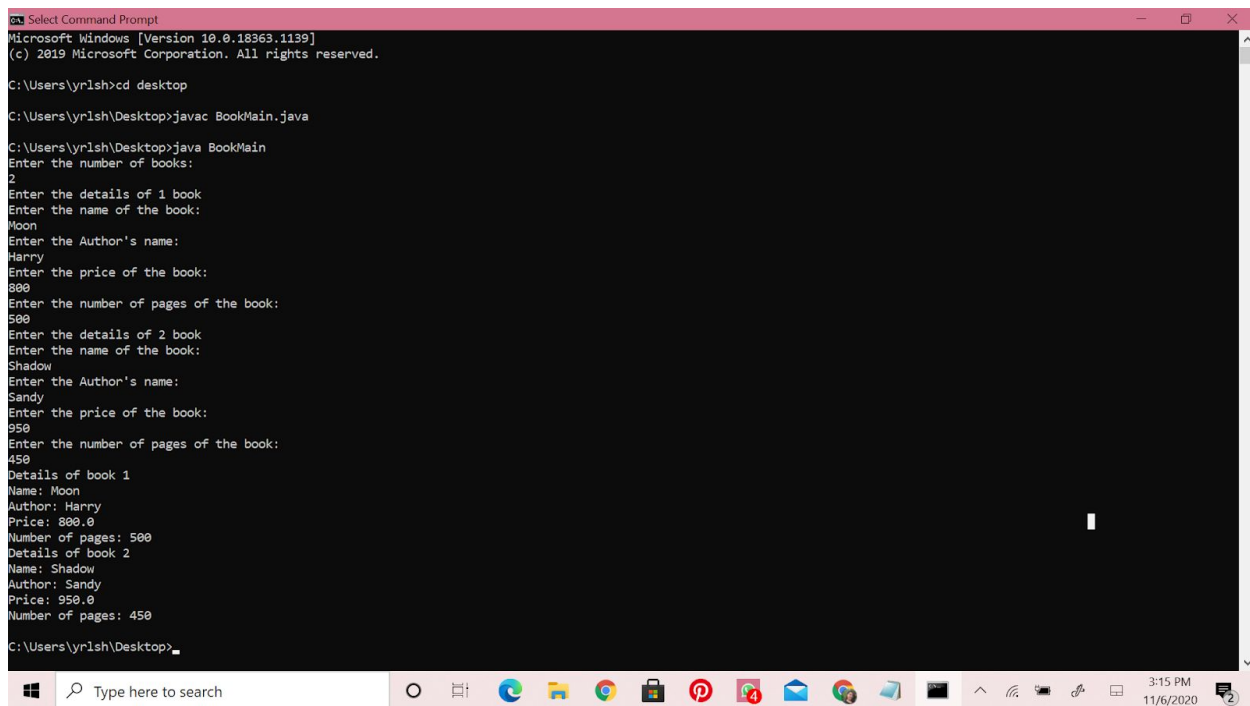
```
import java.util.*;
class Book {
    String name;
    String author;
    float price;
    int num_pages;
    Book()
    {}
    Book(String name,String author,int price,int num_pages)
    {
        this.name=name;
        this.author=author;
        this.price=price;
        this.num_pages=num_pages;
    }
    void display()
    {
        Scanner inp=new Scanner(System.in);
        System.out.println("Enter the name of the book:");
        name=inp.next();
        System.out.println("Enter the Author's name:");
        author=inp.next();
        System.out.println("Enter the price of the book:");
        price=inp.nextFloat();
        System.out.println("Enter the number of pages of the book:");
        num_pages=inp.nextInt();
    }
    public String toString()
    {
        return ("Name: "+name + "\n" + "Author: "+author + "\n" + "Price: "+price + "\n" + "Number of pages: "+num_pages );
    }
}
class BookMain {
    public static void main(String args[])
    {
        Scanner a=new Scanner(System.in);
        System.out.println("Enter the number of books:");
```

```

int n=a.nextInt();
Book b[]=new Book[n];
for(int i=0;i<n;i++)
{
b[i]=new Book();
System.out.println("Enter the details of "+(i+1)+" book");
b[i].display();
}
for(int i=0;i<n;i++)
{
System.out.println("Details of book "+(i+1));
System.out.println(b[i]);
}
}
}
}

```

The output:



```

C:\Users\yr1sh>cd desktop
C:\Users\yr1sh\Desktop>javac BookMain.java
C:\Users\yr1sh\Desktop>java BookMain
Enter the number of books:
2
Enter the details of 1 book
Enter the name of the book:
Moon
Enter the Author's name:
Harry
Enter the price of the book:
800
Enter the number of pages of the book:
500
Enter the details of 2 book
Enter the name of the book:
Shadow
Enter the Author's name:
Sandy
Enter the price of the book:
950
Enter the number of pages of the book:
450
Details of book 1
Name: Moon
Author: Harry
Price: 800.0
Number of pages: 500
Details of book 2
Name: Shadow
Author: Sandy
Price: 950.0
Number of pages: 450
C:\Users\yr1sh\Desktop>

```