Week 4.

Create a class Book which Contains four members, name, author, price, num-pages, Include a Constructor to set the value for the members. Include a toString() method that could display the Complete details of the books. Develope Java Program.

~~import java~~

Algorithm:

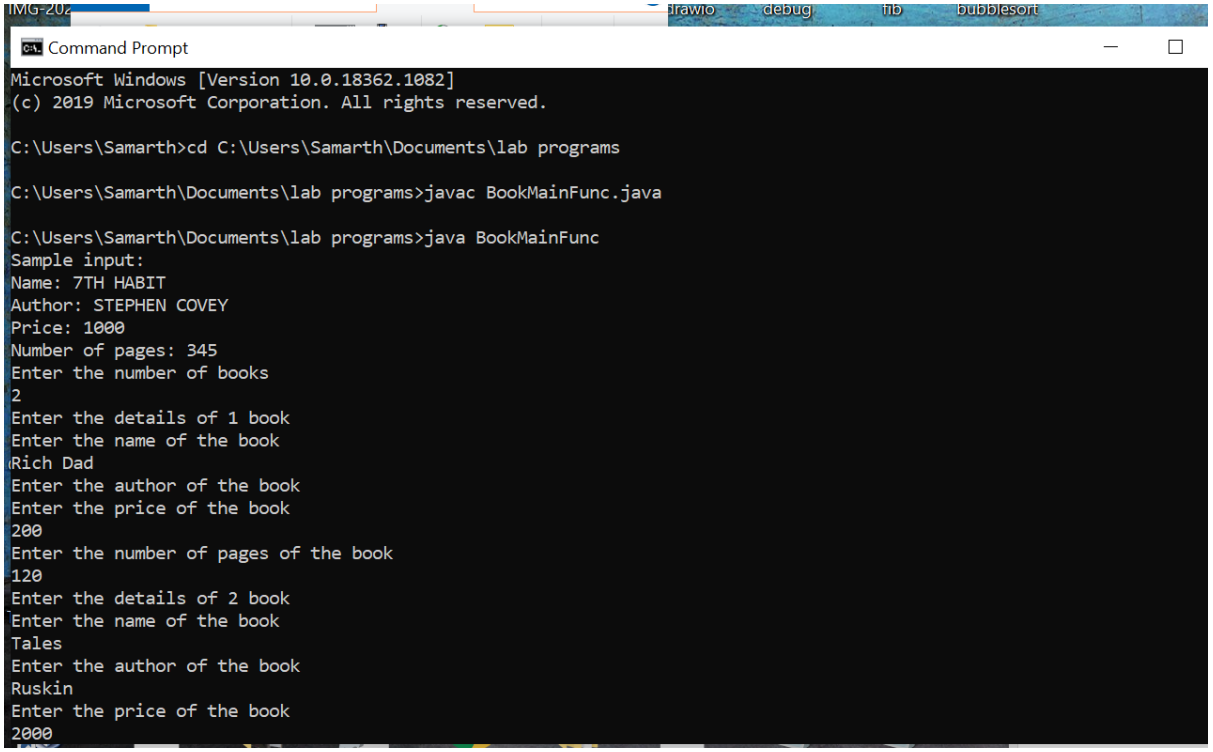
i) Create Book Class
ii) Intialize instance Variables.
iii) Create a Constructor to accept Values
iv) Create a function to read the inputs give by User.
v) Create toString func^n file and return the values.
vi) In main intialize the object with n
vii) Create an array for multiple objects.
viii) Display the Contents.

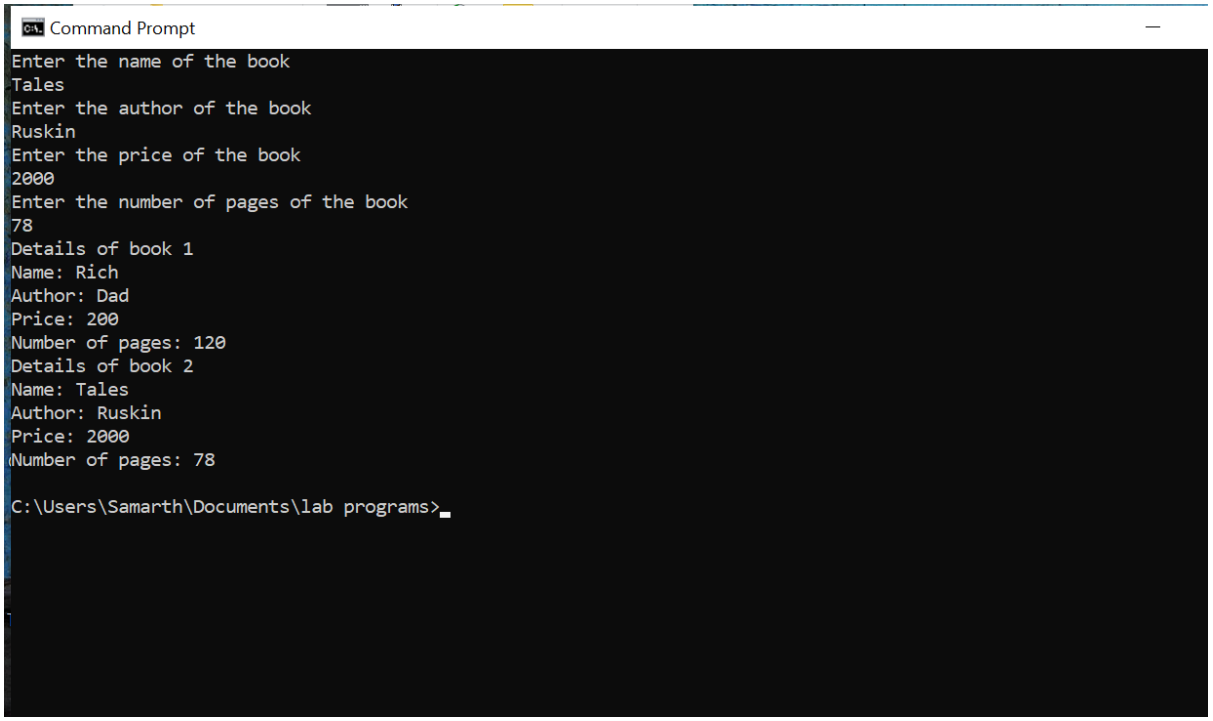
```
import java.util.*;
Class Book {
    String name;
    String author;
    int price;
    int num_pages;
    Book(String name, String author, int price, int num_pages)
    {
        this.name = name;
        this.author = author;
        this.num_pages = num_pages;
    }
void Read()
{
    Scanner s = new Scanner(System.in);
    System.out.println("Enter the name of the book");
    name = s.next();
    System.out.println("Enter the author of the book");
    author = s.next();
    System.out.println("Enter the price of the book");
    price = s.nextInt()
    System.out.println("Enter the no of pages of
                        the book");
    num_pages = s.nextInt();
}
Public String toString()
{
    return ("Name : "+Name +"\n" + "Author : "+author
    +"\n" + "Price : "+price +"\n" + "Number of pages :
     "+num_pages);

}
```

```
public class BookMainFunc {
    public static void main (String args[])
    {
        Scanner a = new Scanner (System.in);
        Book b1 = new Book("7th Habit", "STEPHEN COVEY", 100
            , 345);
        System.out.println("Same i/p: \n" + b1);
        System.out.println("Enter the no 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) + "th Book");
            b[i].Read();
        }
        for (int i=0; i<n; i++)
        {
            System.out.println("Details of book" + (i+1));
            System.out.println(b[i]);
        }
    }
}
```

```
//Program for week 4
import java.util.*;
class Book {
	String name;
	String author;
	int 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 Read()
	{
		Scanner s=new Scanner(System.in);
		System.out.println("Enter the name of the book");
		name=s.next();
		System.out.println("Enter the author of the book");
		author=s.next();
		System.out.println("Enter the price of the book");
		price=s.nextInt();
		System.out.println("Enter the number of pages of the book");
		num_pages=s.nextInt();
	}
	public String toString()
	{
```

```
        return ("Name: "+name + "\n" + "Author: "+author + "\n" + "Price: "+price + "\n"
+"Number of pages: "+num_pages );
    }
}
public class BookMainFunc {
    public static void main(String args[])
    {
        Scanner a=new Scanner(System.in);
        Book b1=new Book("7TH HABIT","STEPHEN COVEY",1000,345);
        System.out.println("Sample input:\n"+b1);
        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].Read();
        }
        for(int i=0;i<n;i++)
        {
            System.out.println("Details of book "+(i+1));
            System.out.println(b[i]);
        }
    }
}
```


Command Prompt
Microsoft Windows [Version 10.0.18362.1082]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Users\Samarth>cd C:\Users\Samarth\Documents\lab programs
C:\Users\Samarth\Documents\lab programs>javac BookMainFunc.java
C:\Users\Samarth\Documents\lab programs>java BookMainFunc
Sample input:
Name: 7TH HABIT
Author: STEPHEN COVEY
Price: 1000
Number of pages: 345
Enter the number of books
2
Enter the details of 1 book
Enter the name of the book
Rich Dad
Enter the author of the book
Enter the price of the book
200
Enter the number of pages of the book
120
Enter the details of 2 book
Enter the name of the book
Tales
Enter the author of the book
Ruskin
Enter the price of the book
2000


Command Prompt
Enter the name of the book
Tales
Enter the author of the book
Ruskin
Enter the price of the book
2000
Enter the number of pages of the book
78
Details of book 1
Name: Rich
Author: Dad
Price: 200
Number of pages: 120
Details of book 2
Name: Tales
Author: Ruskin
Price: 2000
Number of pages: 78
C:\Users\Samarth\Documents\lab programs>