6/10/20

OOJ LAB - 3

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a) Create a class Book, which contains four members : name, author, price, num_pages. Include a constructor. Develop a java program to create n book objects.

```
import java.util.Scanner;
class Book
{
    String name;
    String author;
    String num_pages;
    String price;
    public Book(){
    }
    Void getData()
    {
        Scanner S1 = new Scanner(System.in);
        System.out.println("Enter name of book");
        name = S1.next();
        System.out.println("Enter book author");
        author = S1.next()
        System.out.println("Enter book price");
        price = S1.next();
        System.out.println("Enter book pages");
        num_pages = S1.next();
    }

    public String to String() {
        return("Book:" + name + "\n Author" +
            + author + "\n Price" + price +
            "\n pages" + num_pages);
    }
```

```
}
public class Books
{
        public static void main (String args [])
        {
            int i, n;
            Book obj = new Book();
            System.Out.println("Constructor values:");
            System.Out.println(obj.toString());
            System.Out.println("Enter number of books");
        Scanner s = new Scanner(System.in);
        n = S.nextInt();
        Book[] obj = new Book[n];
        for(i=0; i<n; i++)
        {
            obj[i] = new Book();
            ob[i] = getData()
            System.out.println("_____");
        }
        System.out.println("Details of books:");
        for(i=0; i<n; i++)
        {
            System.out.println("Book:" (i+1));
            System.out.println(ob[i].toString());
        }
    }
}
```

Output

Constructor value:
Book : null
Author : null

price : null
pages : null

Enter number of books:
3
Enter name of book:
A1
Enter name of author:
Pranav
Enter price of book:
100
Enter number of pages:
500

Enter ~~number~~ name of book:
A2
Enter name of author:
Ravi
Enter price of book
50
Enter number of pages:
200

Enter name of book:
A3
Enter name of author
Shankar
Enter price of book:
500
Enter number of pages:
25000

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store
67 ____/____

Details of all books are:

Book : 1
Name : A1
Author: Pranav
Price : 100
Pages :500
Book: 2
Name : A2
Author: Ravi
Price :50
Pages :200
Book:3
Name : A3
Author: Shankar
Price :500
Pages :2500