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1BM19CS199

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Lab-3

Q. 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.

A.

```
import java.util.Scanner;

class Book{
    String name;
    String author;
    double price;
    int num_pages;
    Scanner in = new Scanner(System.in);

    Book(){
        System.out.println("Enter name of the Book: ");
        name = in.nextLine();
        System.out.println("Enter the author of the Book: ");
        author = in.nextLine();
        System.out.println("Enter the price of the Book: ");
        price = in.nextDouble();
        System.out.println("Enter the number of pages of the Book: ");
        num_pages = in.nextInt();
        System.out.println();
    }
}
```

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```
void display(){
    System.out.println("---- BOOK ----");
    System.out.println("Name --> "+name);
    System.out.println("Author --> "+author);
    System.out.println("Price --> "+price);
    System.out.println("No. of Pages --> "+num_pages);
}

public String toString(){
    return("Name: "+name+" | Author: "+author+" | Price: "
        +price+" | Number of Pages: "+num_pages);
}
}

class Lab3{
    public static void main(String args[]){
        Scanner in = new Scanner(System.in);
        System.out.println("Enter the number of Books:");
        int n = in.nextInt();
        System.out.println();
        Book ob[] = new Book[n];
        for(int i=0; i<n; i++)
        {
            System.out.println("Book"+(i+1));
            ob[i] = new Book();
        }
        for(int i=0; i<n; i++)
        {
            System.out.println("Book"+(i+1)+" -> ");
            System.out.println(ob[i]);
        }
        System.out.println();
```

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```
        System.out.println("Enter the book numbers to display:");
        int x = in.nextInt();
        ob[x-1].display();
    }
}
```

OUTPUT

```
Enter the Number of Books: 3

Book 1
Enter the Name of the Book: Harry Potter
Enter the author of the Book: J K Rowling
Enter the price of the Book: 250
Enter the number of pages of the Book: 450

Book 2
Enter the Name of the book: Origin
Enter the author of the Book: Dan Brown
Enter the price of the Book: 300
Enter the number of pages of the Book: 550

Book 3
Enter the Name of the Book: Bloodline
Enter the author of the Book: Sidney Sheldon
Enter the price of the Book: 420
Enter the number of pages of the Book: 401

Book 1 → Name: Harry Potter | Author: J K Rowling | Price: 250.0 |
         Number of Pages: 450
Book 2 → Name: Origin | Author: Dan Brown | Price: 300.0 |
         Number of Pages: 550
```

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Book 3 → Name: Bloodline | Author: Sidney Sheldon | Price: 420.0
Number of Pages: 401

Enter the book Number to Display: 2

---- BOOK ----
Name → Origin
Author → Dan Brown
Price → 300.0
Number of Pages → 550