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Lab_Program-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 pages;

    public Book(String name, String author, double price
    int pages) {
        this.name = name;
        this.author = author;
        this.price = price;
        this.pages = pages;
    }

    public void setName(String name) {
        this.name = name;
    }
    public void setAuthor(String author) {
        this.price = price;
                author  author
    }
    public void setPages(int pages) {
        this.pages = pages;
    }
```

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```
public void set pao setprice (double price) {
        this. price = price;
}

public String getname() { return name; }
public String get author () { return author ; }
public double get price () { return price ; }
pubic int getpage () { return pages ; }

public String to string () {
    return "Book Name :" + name + "\n Author : "
    + author + "\n Price : " + price + "\n Pages : "
    + pages ;
}
} // End of "Book" class

public class Bookdetails {
    public static void main (String [] args) {
        Scanner sx = new Scanner (System.in);
System.out.println (" Enter no. of Books : ");
    int n = sx.nextInt();
    Book [] books = new Book [n];
For (int i = 0; i<n; i++) {
    System.out.Println ("\n Enter details for Book " + (i+1)
        + ":");
    System.out.Println (" Book name : ");
    String name = sx.nextline();
    System.out.Println (" Author name : ");
    String author = sx.nextline();
    System.out.println (" Price : ");
    double price = sx.nextDouble();
    System.out.println (" Pages : ");
    int pages = sx.nextInt;
```

```
        books[i] = new Book(name, author, price, pages);
    }

    System.out.println("\n Book Details:");
        for(int i=0; i<n; i++){
            system.out.println("Book" + [i+1] + ":");
            system.out.println(books[i].toString());
        }
        scanner.close();
    }
}
```

o/p

```
Enter the number of Books: 2

Enter details for Book 1:
Name: The Alchemist
Author: Paulo Coelho
Price: 299.99
Pages: 208
Enter details for Book 2:
Name: To kill a Mockingbird
Author: Harper lee
Price: 399.5
Pages: 3241
Book Details
Book 1:
Name: The Alchemist
Author: Paulo Coelho
Price: 299.99
Pages: 208
```

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Book 2 :

Name: To Kill a Mocking bird

Author: Harper lee

Price: 399.5

Pages: 324

—x—

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