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PROGRAM - 3

Q) Create a class BOOK which contains your 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.

```
import java.util.Scanner;

class Book {
    String name;
    String author;
    int price;
    int numPages;

    Book(String name, String author,
    int price, int numPages) {
        this.name = name;
        this.author = author;
        this.price = price;
        this.numPages = numPages;
    }

    @Override
    public String toString() {
        String bookDetails = "Book name:"
            + this.name + "\n" +
            "Author name: " +
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```
        this.author + "\n" + "Price :"
        + this.price + "\n" +
        "Number of pages :" + this.numpage
        + "\n";
        return bookDetails;
    }
}

public class Main {
    public static void main (String[] args) {
        Scanner s = new Scanner (System.in);
        System.out.print("Enter the number
                          of books :");
        int n = s.nextInt();

        Book[] books = new Book[n];

        for (int i=0; i<n; i++) {
            System.out.print("Enter name
            of book" + (i+1) + " :"));
            String name = s.next();
            System.out.print("Enter
            author of book" + (i+1) + "!:");
            String author = s.next();
            System.out.print("Enter price
            of book" + (i+1) + "!:");
            int price = s.nextInt();
            System.out.print("Enter number
            of pages in book" + (i+1) + ":")
            int numPages = s.nextInt();
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```
            books[i] = new Book(name, author,
                        price, numPages);
        }

        System.out.println("\n Book Details:");
        for (Book book : books) {
            System.out.println(book);
        }

        s.close();
    }
}
```

```
» Enter the number of books: 3
Enter name of book 1: Macbeth
Enter author of book 1: Shakespeare
Enter price of book 1: 300
Enter number of pages in book 1: 132
Enter name of book 2: Dracula
Enter author of book 2: Stoker
Enter price of book 2: 200
Enter number of pages in book 2: 418
Enter name of book 3: Emma
Enter author of book 3: Austen
Enter price of book 3: 500
Enter number of pages in book 3: 442

Book Details:
Book name: Macbeth
Author name: Shakespeare
Price: 300
```

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Number of pages: 132

Book name: Dracula
Author name: stoker
Price: 200
Number of pages: 418

Book name: Emma
Author name: Austen
Price: 500
Number of pages: 492