23/10/24 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 & 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.

Source Code

```
import java.util.*;
class Book{
    String name, author;
    int price, num_pages;
    Book (String name, String author, int price, int num_pages){
        this.name = name;
        this.author = author;
        this.price = price;
        this.num_pages = num_pages;

    public String toString(){
        String book_details = "Book name: " + this.name + "\n" +
        "Author name: " + this.author + "\n" + "Price: " + this.price +
        "\n" + "Number of pages: " + this.num_pages + "\n";
        return book_details;
    }
}

class Run{
    public static void main (String[] args) {
        Scanner sc = new Scanner (System.in);
        System.out.println("Enter number of books: ");
        int n = sc.nextInt();
```

```
Book books[];
for (int i=0; i<n; i++) {
    System.out.println("Enter name of book "+(i+1)+": ");
    String name= sc.nextLine();
    System.out.println("Enter author: ");
    String author = sc.nextLine();
    System.out.println("Enter price: ");
    int price = sc.nextInt();
    System.out.println("Enter number of pages in book: ");
    int num_pages = sc.nextInt();
    books[i]= new Book(name, author, price, num_pages);
}
System.out.println("Book details:");
for (int i=0; i<n; i++){
    System.out.println(books[i].toString());
}
}
}
```

Output

```
Enter the number of books:
2
Enter name of book 1:
ABC
Enter author:
Agatha
Enter price:
350
Enter number of pages in book:
700
```

Enter ~~name~~ name of book 2:
[redacted] Fire
Enter author:
[redacted] Rowling
Enter price:
500
Enter number of pages in book:
969

Book ~~det~~ Details:
Book name: ABC [redacted]
Author name: Agatha [redacted]
Price: 350
Number of pages: 700
~~Book~~
Book name: [redacted] Fire
Author name: [redacted] Rowling
Price: 500
Number of pages: 969

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