**LAB PROGRAM 3**

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.

import java.util.Scanner;

class Book {

private String name;

private String author;

private double price;

private int numPages;

public Book(String name, String author, double price, int numPages) {

this.name = name;

this.author = author;

this.price = price;

this.numPages = numPages;

}

// Setter methods

public void setName(String name) {

this.name = name;

}

public void setAuthor(String author) {

this.author = author;

}

public void setPrice(double price) {

this.price = price;

}

public void setNumPages(int numPages) {

this.numPages = numPages;

}

// Getter methods

public String getName() {

return name;

}

public String getAuthor() {

return author;

}

public double getPrice() {

return price;

}

public int getNumPages() {

return numPages;

}

// toString method to display complete details of the book

public String toString() {

return "Book Details:\nName: " + name + "\nAuthor: " + author + "\nPrice: $" + price + "\nNumber of Pages: " + numPages;

}

}

public class BookTest {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the number of books: ");

int n = scanner.nextInt();

// Create an array to store n Book objects

Book[] books = new Book[n];

// Input details for each book

for (int i = 0; i < n; i++) {

System.out.println("\nEnter details for Book " + (i + 1) + ":");

System.out.print("Name: ");

String name = scanner.next();

System.out.print("Author: ");

String author = scanner.next();

System.out.print("Price: $");

double price = scanner.nextDouble();

System.out.print("Number of Pages: ");

int numPages = scanner.nextInt();

// Create a new Book object and store it in the array

books[i] = new Book(name, author, price, numPages);

}

// Display details of all the books

System.out.println("\nDetails of all books:");

for (int i = 0; i < n; i++) {

System.out.println(books[i].toString());

System.out.println("---------------");

}

}

}

A screenshot of a computer

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