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.

```
Program:
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;
  }
  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;
}
public String getName() {
  return name;
}
public String getAuthor() {
  return author;
}
public double getPrice() {
  return price;
```

```
}
  public int getNumPages() {
    return numPages;
  }
  @Override
  public String toString() {
    return "Book Details:\n" +
         "Name: " + name + '\n' +
         "Author: " + author + '\n' +
         "Price: $" + price + '\n' +
         "Number of Pages: " + numPages;
  }
public class BookProgram{
  public static void main(String[] args) {
     Scanner scanner = new Scanner(System.in);
     System.out.print("Enter the number of books to create: ");
     int n = scanner.nextInt();
     scanner.nextLine();
```

}

```
for (int i = 0; i < n; i++) {
  System.out.println("\nEnter details for book " + (i + 1) + ":");
  System.out.print("Enter name: ");
  String name = scanner.nextLine();
  System.out.print("Enter author: ");
  String author = scanner.nextLine();
  System.out.print("Enter price: ");
  double price = scanner.nextDouble();
  System.out.print("Enter number of pages: ");
  int numPages = scanner.nextInt();
  scanner.nextLine();
  books[i] = new Book(name, author, price, numPages);
}
System.out.println("\nDetails of all books:");
for (int i = 0; i < n; i++) {
```

Book[] books = new Book[n];

```
System.out.println("\nBook " + (i + 1) + ":");
       System.out.println(books[i].toString());
    }
    scanner.close();
  }
}
 PS C:\Users\DISHA D S\OneDrive\Desktop\java> cd "c:\Users\DISHA
 ram }
 Enter the number of books to create: 2
 Enter details for book 1:
 Enter name: aaa
 Enter author: AAA
 Enter price: 599
 Enter number of pages: 60
 Enter details for book 2:
 Enter name: bbb
 Enter author: BBB
 Enter price: 699
 Enter number of pages: 40
 Details of all books:
 Book 1:
 Book Details:
 Name: aaa
 Author: AAA
 Price: $599.0
 Number of Pages: 60
 Book 2:
 Book Details:
 Name: bbb
 Author: BBB
 Price: $699.0
 Number of Pages: 40
```