

Lab - 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 method 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.*;
import java-lang.*;
class Book {
    String name, author;
    double price;
    int num-pages;
    Scanner in = new Scanner(System.in);
```

```
Book() {
```

```
    System.out.println("Enter name of book:");
    name = in.nextLine();
    System.out.println("Enter name of author:");
    author = in.nextLine();
    System.out.println("Enter price of book:");
    price = in.nextDouble();
    System.out.println("Enter no. of pages:");
    num-pages = in.nextInt();
```

```
}
```

```
void display() {
```

```
    System.out.println("Name: " + name);
    System.out.println("Author: " + author);
    System.out.println("Price: " + price);
    System.out.println("No. of pages: " + num-pages);
```

```
}
```

```
public String toString() {  
    return name + ", By" + author + " for Rs." +  
        + price + " and have " + num_pages + " pages";  
}
```

```
public static void main(String[] args) {  
    Scanner in = new Scanner(System.in);  
    int n, x;  
    System.out.println("Enter no. of books:");  
    n = in.nextInt();  
    Book B[] = new Book[n];  
    for (int i = 0; i < n; i++) {  
        System.out.println("Book" + (i+1));  
        B[i] = new Book();  
        System.out.println();  
    }  
}
```

```
for (int i = 0; i < n; i++) {  
    System.out.println("Book" + (i+1));  
    System.out.println(B[i]);  
    System.out.println();  
}
```

```
do {
```

```
    System.out.println("Enter the book number  
    whose details you want to display:");  
    x = in.nextInt();
```

```
    while (n < 1 && x > n);
```

```
    B[n-1].display() display();
```

```
}
```

```
}
```