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.

```java
import java.util.Scanner;

class Books
{
        String title,author;
        int price,num_pages;
        Books()
        {
                title = new String();
                author = new String();
                Scanner ss = new Scanner(System.in);
                System.out.println("Enter the name of the book:");
                title = ss.next();
                System.out.println("Enter the name of the author:");
                author = ss.next();
                System.out.println("Enter the price:");
                price = ss.nextInt();
                System.out.println("Enter the total number of pages:");
                num_pages = ss.nextInt();
    }
    public String toString()
    {
        return "Book Title: "+title +"\nWritten by: "+author +"\nCost: "+price +"\nPages: "+num_pages;
```

```java
        }
}
class prog3
{
        public static void main(String args[])
        {
                int total;
                System.out.println("Enter number of books to record: ");
                try (Scanner ss = new Scanner(System.in))
                {
                        total = ss.nextInt();
                        Books one[] = new Books[total];
                        for(int i=0;i<total;i++)
                        {
                                System.out.println("Book "+(i+1)+":");
                                one[i] = new Books();
                        }
                        for(int i = 0; i<total;i++)
                        {
                                System.out.println("Book "+(i+1)+":");
                                System.out.println(one[i]);
                        }
                }
        }
}
```

Output:

```
C:\Users\Admin\Desktop\1BM21CS225\Java Files>javac prog3.java

C:\Users\Admin\Desktop\1BM21CS225\Java Files>java prog3
Enter number of books to record:
2
Book 1:
Enter the name of the book:
GameOfThrones
Enter the name of the author:
GRRM
Enter the price:
1000
Enter the total number of pages:
800
Book 2:
Enter the name of the book:
LordOfTheRings
Enter the name of the author:
JRRT
Enter the price:
2500
Enter the total number of pages:
1234
Book 1:
Book Title: GameOfThrones
Written by: GRRM
Cost: 1000
Pages: 800
Book 2:
Book Title: LordOfTheRings
Written by: JRRT
Cost: 2500
Pages: 1234
```