

1) 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 {
```

```
    String name;
```

```
    String author;
```

```
    int price;
```

```
    int numPages;
```

```
    Book(String name, String author, int price, int numPages) {
```

```
        this.name = name;
```

```
        this.author = author;
```

```
        this.price = price;
```

```
        this.numPages = numPages;
```

```
    }
```

```
    @Override
```

```
    public String toString() {
```

```
        String bookDetails = "Book name: " + this.name + "\n" +
```

```
            "Author name: " + this.author + "\n" +
```

```
            "Price: " + this.price + "\n" +
```

```
            "Number of pages: " + this.numPages + "\n";
```

```
        return bookDetails;
```

```
    }
```

```
}
```

```
public class Main {  
    public static void main(String[] args) {  
        Scanner s = new Scanner(System.in);  
  
        System.out.print("Enter the number of books: ");  
        int n = s.nextInt();  
  
        Book[] books = new Book[n];  
  
        for (int i = 0; i < n; i++) {  
            // Prompt user to enter book details  
            System.out.print("Enter name of book " + (i + 1) + ": ");  
            String name = s.next();  
            System.out.print("Enter author of book " + (i + 1) + ": ");  
            String author = s.next();  
            System.out.print("Enter price of book " + (i + 1) + ": ");  
            int price = s.nextInt();  
            System.out.print("Enter number of pages in book " + (i + 1) + ": ");  
            int numPages = s.nextInt();  
  
            books[i] = new Book(name, author, price, numPages);  
        }  
  
        System.out.println("\nBook Details:");  
        for (Book book : books) {  
            System.out.println(book);  
        }  
        System.out.println("enter your name:AARUSHA GP");  
        System.out.println("enter your usn:1BM23CS005");  
    }  
}
```

```
s.close();  
}  
}
```

Output:

```
C:\Users\Admin\Desktop>javac Main.java  
  
C:\Users\Admin\Desktop>java Main  
Enter the number of books: 2  
Enter name of book 1: battlefeild  
Enter author of book 1: Abhaykr  
Enter price of book 1: 69  
Enter number of pages in book 1: 100  
Enter name of book 2: memories  
Enter author of book 2: aarusha  
Enter price of book 2: 88  
Enter number of pages in book 2: 100  
  
Book Details:  
Book name: battlefeild  
Author name: Abhaykr  
Price: 69  
Number of pages: 100  
  
Book name: memories  
Author name: aarusha  
Price: 88  
Number of pages: 100  
  
enter your name:AARUSHA GP  
enter your usn:1BM23CS005
```