

RA 26-12-23

Q Create 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 Books {
```

```
    String name, author;
```

```
    int price, numPages;
```

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

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

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

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

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

```
    }
```

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

```
        String name, author, price, numPages;
```

```
        name = "Book name: " + this.name + "\n";
```

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

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

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

```
        return name + author + price + numPages;
```

```
    }
```

```
}
```

```
class BookMain {
```

```
public static void main(String[] args) {
```

```
Scanner sc = new Scanner(System.in);
```

```
int n;
```

```
String name, author;
```

```
int price, numPages;
```

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

```
n = sc.nextInt();
```

```
Books b[] = new Books[n];
```

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

```
System.out.println("Enter Name, author, price and number of pages:");
```

```
name = sc.next();
```

```
author = sc.next();
```

```
price = sc.nextInt();
```

```
b[i] = new Books(name, author, price, numPages);
```

```
}
```

```
System.out.println("Book Details:");
```

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

```
System.out.println(b[i].toString());
```

```
}
```

```
}
```

```
}
```

Output:

Name: Sohan AR

USN: 15M7765285

Enter the number of books:

3

Enter Name, author, price and number of pages:

005

Alex

1000

100

Enter Name, author, price and Number of pages :

Java for beginners

Harry

3999

499

Enter Name, author, price and number of pages :

Advanced Java

Kevin

2999

799

Book Details :

Book names : 005

Author name : Alex

Price : 1000

Number of Pages = 100

Book names : Java for Beginners

Author name : Harry

Price : 3999

Number of pages : 499

Book names : Advanced Java

Author name : Kevin

Price : 2999

Number of pages : 799