

- Q 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 Books  
{
```

```
    String name;
```

```
    String author;
```

```
    int price;
```

```
    int numPages;
```

```
    Books()
```

```
    {}
```

```
    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";
```

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

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



```
"\n";
```

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

```
class Main  
{
```

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

```
        Scanner s = new Scanner (System.in);  
        int n;
```

```
        String name;
```

```
        String author;
```

```
        int price;
```

```
        int numPages;
```

```
        System.out.println("Enter the number of book:");  
        n = s.nextInt();
```

```
        Books b[];
```

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

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

```
            System.out.println("Book" + (i+1) + ":");
```

```
            System.out.println("Enter the nameauthor of the  
                                book:");
```

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

```
            System.out.println("Enter the author of the book:");
```

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

```
            System.out.println("Enter the price of the book:");
```

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

```
            System.out.println("Enter the number of pages
```



```
of the book : ");  
numPages = s.nextInt();
```

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

```
System.out.println();  
}
```

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

```
System.out.println ("Book " + (i+1) + ": \n"  
                    + b[i]);  
}
```

Output:

Enter the number of books : 2

Book 1:

Enter the name of the book : happy

Enter the author of the book : William

Enter the price of the book : 400

Enter the number of pages of the book : 200

Book 2:

Enter the name of the book : Oracle

Enter the author of the book : Herbert Schildt

Enter the price of the book : 1,500

Enter the number of pages the book : 1912

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C:\Users\Aisha Taffazul>cd C:\Users\Aisha Taffazul\Desktop\notes\3rd sem\java programs\book

C:\Users\Aisha Taffazul\Desktop\notes\3rd sem\java programs\book>javac Lab\_program\_3.java

C:\Users\Aisha Taffazul\Desktop\notes\3rd sem\java programs\book>java Main

Enter the number of books

1

Book1:

Enter the name of the book:

happy

Enter the authors name

willam

Enter the price of the book:

200

Enter the number of pages of the book:

400

C:\Users\Aisha Taffazul\Desktop\notes\3rd sem\java programs\book>



24°C  
Partly cloudy



Search



ENG  
IN



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