

19/11/2023
26/10/23 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.

```
import java.util.*;
class Book {
    String name;
    String author;
    int price;
    int numPages;
    public Book(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 Main3
```

```
{  
    public static void main(String[] args)  
    {  
        Scanner s = new Scanner(System.in);  
        int n;  
        int i;  
        int price;  
        String name;  
        String author;  
        int numPages;  
        System.out.println("Enter the no. of books");  
        n = s.nextInt();  
        Book b[];  
        b = new Book[n];  
        for(i=0; i<n; i++)  
        {  
            System.out.println("Enter the details of the book:"  
+ i);  
            System.out.println("Enter the name of the book:");  
            name = s.nextLine();  
            System.out.println("Enter the author of the book:");  
            author = s.nextLine();  
            System.out.println("Enter the price of the book:");  
            price = s.nextInt();  
            System.out.println("Enter the no. of pages of the book:");  
            numPages = s.nextInt();
```



```

b[i] = new Book(name, author, price, numPages);
System.out.println("Book Details:");
for(i=0; i<n; i++)
    System.out.println(b[i].toString());
}
}

```

Output:

Enter the no. of books

4

Enter the details of the book: 0

Enter the name of the book:

harry

Enter the author of the book:

patter

Enter the price of the book:

500

Enter the no. of pages of the book:

450

Enter the details of the book: 1

Enter the name of the book:

Winter

Enter the author of the book:

dan

Enter the price of the book:

900

Enter the no. of pages of the book:

478

Enter the details of the book: 2

Enter the name of the book: 1

Malgudi

Enter the author of the book: 1

rk

Enter the price of the book:

599

Enter the no. of pages of the book:

567

Enter the details of the book: 3

Enter the name of the book:

Humayun

Enter the author of the book:

rock

Enter the price of the book:

799

Enter the no. of pages of the book:

467

Book details:

Book name: harry

Author name: potter

Price: 500

Number of pages: 450

Book name: Winda

Author name: dan

Price: 900

Number of pages: 478

Book name: Malgudi

Author name: rk

Price: 599

Number of pages: 567

Book name: Jumanji

Author name: Rick

Price: 799

Number of pages: 167

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