

26/12/23

Lab 3:

Create a class Book which contains 4 members: name, author, price, num. pages. Include a constructor to set the values for the members. Include methods to set & 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;
```

```
    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 = "No of Pages: " + this.numPages + "\n";
```

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

```
    }
```



```
String getName() {  
    this.name = name;  
}
```

```
String getAuthor() {  
    this.author = author;  
}
```

```
String getPrice() {  
    this.price = price;  
}
```

```
int getNumPages() {  
    this.numPages = numPages;  
}
```

```
class MainB {
```

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

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

```
        int n, price, numPages;
```

```
        String name, author;
```

```
        System.out.println("Enter no of books :");
```

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

```
        s.nextLine();
```

```
        Books b[];
```

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

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

```
            System.out.println("Enter the name of book" + (i+1));
```

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

```
            System.out.println("Enter Author of book" + (i+1));
```

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



```

system.out.println("Enter price of book "+ (i+1) + ": ");
price = s.nextInt();
system.out.println("Enter no of pages of book "+ (i+1) + ": ");
numPages = s.nextInt();
s.nextLine();
b[i] = new Books ( name, author , price , numPages);
}

```

```

for (i=0; i<n; i++){
    string bookDetails = b[i].toString();
    system.out.println(bookDetails);
}

```

```

for (int i=0; i<n; i++){
    system.out.println("Book " + (i+1) + ":");
    system.out.println("Name : " + b[i].getName());
    system.out.println("Author : " + b[i].getAuthor());
    system.out.println("Price : " + b[i].getPrice());
    system.out.println("No of Pages : " + b[i].getNumPages());
    system.out.println("*****");
}

```

```

system.out.println("Sanketh M Hancu' In IBM22CS242")
}

```


Output:

Enter no of books:

2

Enter the name of book 1:

Da Vinci code

Enter Author of book 1:

Dan Brown

Enter price of book 1:

499

Enter no of pages of book 1:

350

Enter the name of book 2:

Harry Potter

Enter the Author of book 2:

J K Rowling

Enter price of book 2:

599

Enter no of pages of book 2:

600

Book 1:

Name: Da Vinci Code

Author: Dan Brown

Price: 499

No of pages: 350

Book 2:

Name: Harry Potter

Author: J K Rowling

Price: 599

No of Pages: 600

Sanketh M Hanasi

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