

26/10/23

lab 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.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;
    }

    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 = "numpages:" + this.numpages + "\n";
        return name + author + price + numpages;
    }
}
```



```
class BookMain
```

```
{
```

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

```
    {
```

```
        System.out.println("Pranetha M Reddy, 18M88CS205");
```

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

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

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

```
        Book b[];
```

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

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

```
        {
```

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

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

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

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

```
            System.out.println("enter the price:");
```

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

```
            System.out.println("enter the num of pages:");
```

```
            int numpages = s.nextInt();
```

```
            b[i] = new Book(name, author, price, numpages);
```

```
        }
```

```
        System.out.println("details:");
```

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

```
        {
```

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

```
        }
```

```
    }
```

```
}
```



Output

Praveen M Reddy, BM22CS205  
enter the no of books:

2

enter the name of book 1:

Harry Potter

enter the author of the book

JK Rowling

enter the price:

399

enter the num of pages:

511

enter the name of book 2:

Divergent

enter the author of the book

Veronica

enter the price:

499

enter the num of pages:

400

details:

book name: Harry Potter

author name: JK Rowling

price: 399

num pages: 511

book name: Divergent

author name: Veronica

price: 499

num pages: 400

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