

26/12/2023 LAB-03:-

Q. Create a class Book which contains four members: name, author, price, num-pages. 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.

Soln

```
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 = "Number of pages : " + this.numPages + "\n";  
return name + author + price + numPages;  
}  
}
```

```
public class TMain  
{  
    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  
        books:");  
  
        n = s.nextInt();  
        Book[] b = new Book[n];  
  
        for (int i = 0; i < n; i++)  
        {  
            System.out.println("Enter the name 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 Book(name, author, price,  
numPages);
```

```
}
```

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

```
{
```

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

```
}
```

```
}
```

```
}
```

Output:-

Enter the number of books:

2

Enter name of the book:

ABC

Enter author of the book:

Arvind

Enter the price of the book:

300

Enter the number of pages of the book:

450

Enter name of the book:

xyz

Enter author of the book:

Ravi

Enter the price of the book:

500

Enter the number of pages of the book:

390

Book name: ABC

Author name: Arvind

Price: 300

Number of pages: 450

Book name: xyz

Author name: Ravi

Price: 500

Number of pages: 390,

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