



### Lab Program no. 3

Create a class Book which contains four members: name, author, price, numPages. 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(String name, String author,  
           int price, int numPages)  
    {  
        this.name = name;  
        this.author = author;  
        this.price = price;  
        this.numPages = numPages;  
    }  
    public String toString()  
    {  
        return "Book Details: Name: " + name + ", Author: " + author + ", Price: " + price + ", NumPages: " + numPages;  
    }  
}
```



```
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 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 number of  
                             books: ");  
        n = s.nextInt();  
        Books b[];  
        b = new Books [n];  
        int i;  
        for (i=0; i<n; i++)  
        {  
            System.out.println ("Enter name of  
                                the book: ");  
            name = s.next();  
        }  
    }  
}
```



```

System.out.println("Enter author
of the book:");
author = s.next();
System.out.println("Enter price
of the book:");
price = s.nextInt();
System.out.println("Enter no. of
pages:");
numPages = s.nextInt();
b[i] = new Books(name, author,
price, numPages);
}
for (i=0; i<n; i++)
{
    System.out.println(b[i]);
}
}
}

```

Output:

Enter number of books:

2

Enter name of the book:

Animal Farm

Enter author of the book:

George Orwell

Enter price of the book:

83

Enter no. of pages:

104



Enter name of the book:

Dear Universe

Enter author of the book:

Sarah Prout

Enter price of the book:

1348

Enter no. of pages:

200

Book name: Animal Farm

Author name: George Orwell

Price: 83

Number of pages: 104

Book name: Dear Universe

Author name: Sarah Prout

Price: 1348

Number of pages: 200

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