

Lab 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 complete 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 ()
    {
```

```
        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;
```

```
}
```

```
public void setBook (String name, String author,  
int price, int numPages)
```

```
{
```

```
    this.name = name;
```

```
    this.author = author;
```

```
    this.price = price;
```

```
    this.numPages = numPages;
```

```
}
```

```
}
```

```
class Main
```

```
{
```

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

```
{
```

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

```
        int n, i;
```

```
        String name;
```

```
        String author;
```

```
        int price;
```

```
        int numPages;
```

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

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

```
        Books b[];
```

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

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

```
            System.out.println ("Enter name of  
book:");
```

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

```

System.out.println("Enter author of book:");
author = s.next();
System.out.println("Enter price of
book:");
price = s.nextInt();
System.out.println("Enter number of
pages:");
numPages = s.nextInt();
b[i] = new Books(name, author,
price, numPages);
}

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

```

Output:

Enter number of books:

2

Enter name of book:

abc

Enter author of book:

Sam

Enter price of book:

126

Enter number of pages:

160

Enter name of book:

def

Enter author of book:

Sam

Page No. _____
Date _____
YOUVA

Enter price of book :

160

Enter number of pages :

700

Book name : abc

Author : san

Price : 126

~~Pages~~ No. of pages : 160

Book name : del

Author : san

Price : 160

No. of pages : 700

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