

Program - 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 Books
```

```
{
```

```
    String name;
```

```
    String author;
```

```
    int price;
```

```
    int numpages;
```

```
}
```

```
Books (String name, String author, int price,
```

```
{
```

```
    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.numPage
          + "\n";

```

```

return name + author + price + numPage;
}
}

```

```

class Main
{

```

```

    for 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 the no. of
                           books");

```

```

        n = s.nextInt();

```

```

        Books b[];

```

```

        b = new Books[n];

```

```

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

```

```

            name = s.next();

```

```

            author = s.next();

```

```

            price = s.nextInt();

```

```

            numpages = s.nextInt();

```

```

            b[i] = new Books(name, author,
                             price, numpages);
        }
    }
}

```



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

```
    System.out.println("name of Book " + name);
    System.out.println("author = " + author);
    System.out.println("price = " + price);
    System.out.println("No. of Pages = " +
        numPages);
```

```
}
```

output

Enter the number of books:

1

Enter details of Book 1:

Enter name of Book:

The Theory of Everything

Author:

Nithya

Price:

200

No. of Pages:

400

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