

DRD-12-13

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Date: / /

Lab Program

Tuesday

21/12/23

1. Create a class Book which contains four members: name, author, price, num_Pages. Include a constructor to set the value for the members. Include methods to set and get the details of the objects. Include a string() 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()
```

```
{
    String name, author, price, numPages;
    num = "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;
}
// end of class

```

class Main

```

{
    public static void main (String args[])
    {
        Scanner s = new Scanner(System.in);

        int n;
        String name;
        String author;
        int price;
        int numPages;
        n = s.nextInt();
        Books b[];
        b = new Books[n];
        for (int i = 0; i < n; i++)
        {
            System.out.println ("Enter details of Book " + (i+1) + ": ");
            System.out.println ("Enter name of book: ");
            name = s.nextLine();
            System.out.println ("Enter author name: ");
            author = s.nextLine();
            System.out.println ("Enter price of book: ");
            price = s.nextInt();
            System.out.println ("Enter no. of pages: ");
            numPages = s.nextInt();
            b[i] = new Books(name, author, price, numPages);
        }
    }
}

```

```
System.out.println("Book details:");
System.out.println("Book Name | Author | Price | No of pages");
for (int i=0; i<n; i++)
{
    System.out.println(b[i].name + "|" + b[i].author +
        "|" + b[i].Price + "|" +
        b[i].numPages);
}
}
```

Output

Enter no. of books

3

Enter details of Book 1

Enter name of book

~~Once again~~

Enter author name: John Brown

Enter price of book

320

Enter no. of pages

415

Enter details of Book 2:

Enter name of book

~~Push to access~~

New

Enter author name :

Vivek

Enter price of book

300

Enter no. of pages.

210

Enter details of Book 3:

Enter name of book

start

Enter author name:

carol

Enter price of book

200

Enter no. of pages

213

Book Details :

Book Name	Author	Price	No of pages
one	Agar	810	415
New	Vivek	200	210
Start	carol	200	315