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Class: 3A

**Lab 2 Question:** Create a class Book that contains four members: name, author, price, and 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.

## **Program:**

```
Book database
import java til Scanner;
class Books
    String name;
    String author;
    int price;
     int numpages;
     Books () { }
    Books (String name, String author, int price, int numPages)
       this name = name;
       this author = author;
       this price = price;
      this. numPages = numPages;
    public string to String ()
          String name, author, price, numbages;
          name = "Book name: " + hame + "\n";
          cutture = "Author name: " + author + " \n";
          price = "Price: "+ this price + "(n";
          numfages = "number of pages: "+ this numPages + "\n";
          return name + author + price + numPages;
     4
```

```
class Main
  Public static moid main (String args [])
      Scanner S = new Scanner (Systemorn);
      ent n;
      String name;
     String author;
     Stair Int price;
      int num lages;
      System out. Printer ("Enter the number of books:");
      n = S-nentInt();
      Books b[];
      b= new Books [n];
      for Cint i=0; i<n; i++)
           System-out println ("Book "+ (i+1) + ": ");
           System out print ("Enter name of book: ");
           name = s. nent ();
           System-out-print ("Enter author: ").
           author = s. mext();
           System out print ("Enter price: ");
           price = s-nextInt();
           System out print ("Enter no of pages: ");
           numPages = S. nextInt ();
          b[i] = new Books (name, author, price, munifages);
```

```
for (int i = 0; ix n; i++)
         System. out. psint & ("Book + "+ (i+1) + ":\n" + b[i]);
Output:
Enter the number of book: 2
 Book 1:
 Enter the name of the book: Jungle-Book
 Enter the author of the book : Rudyard-Kipling
 Enter the price of the book: 1000
 Enter the number of pages of the book : 500
                                                : []d word
 Book 2:
 Enter the name of the book: Tales-Of-Akbor-And-Bubal
 Enter the author of the book; Bubal
 Enter the price of the book: 900
 Enter the number of pages of the book: 400
 Book 1:
 Book name: Jungle-Book
 Anthor: Rudyard-Kipling
 Price: 1000
 Humber of pages: 500
  Book 2:
 Book name: Tales-Cy-Akbar And-Birbal
  Author: Bisbal
  Price: 900
  Number of pages: 400
```

## **Output:**

```
© Command Prompt

D:\xcd D:\BMSCE\Academics\Semester III\Object Oriented JAVA Programming\Lab Programs\Lab2_Book_Database

D:\BMSCE\Academics\Semester III\Object Oriented JAVA Programming\Lab Programs\Lab2_Book_Database>javac Lab2_Book_Database.java

D:\BMSCE\Academics\Semester III\Object Oriented JAVA Programming\Lab Programs\Lab2_Book_Database>java Main

Enter the number of books: 2

Book 1:
Enter the name of the book: Jungle_Book
Enter the author of the book: Rudyard_Kipling
Enter the price of the book: 1000
Enter the number of pages of the book: 500

Book 2:
Enter the name of the book: Birbal
Enter the author of the book: Birbal
Enter the author of the book: 900
Enter the number of pages of the book: 400

Book 1:
Book name: Jungle_Book
Author name: Rudyard_Kipling
Price: 1000
Number of pages: 500
Book 2:
Book name: Tales_Of_Akbar_and_Birbal
Author name: Birbal
Price: 900
Number of pages: 400
```