

LAB 3 PROGRAMS:-

- Create class book containing : name, author, price , num-pages .
Include a constructor to set value for members . Include methods
and string () method to display complete details of the book .
Develop a Java program .

```
import java.util.Scanner;
```

Class Book {

 String name ;

 String author ;

 int price ;

 int numPages ;

```
public Book { String name , String author , int price , int numPages }
```

 this . name = name ;

 this . author = author ;

 this . price = price ;

 this . numPages = numPages ;

 public String toString ()

 String bookDetails = "Book name :" + this . name + "\n" .

 + "Author name " + this . author + "\n" .

 + "Price :" + this . price + "\n" . + "Number of pages "

 + this . numPages + "\n" . + ;

 return bookDetails ;

```
public class Main {
```

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

```
    {  
        Scanner scanner = new Scanner (System.in);
```

```
        System.out.print ("Enter the number of books : ");  
        int n = scanner.nextInt ();  
        Book [] books = new Book [n];
```

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

```
        {  
            System.out.println ("Enter name of the book : ");  
            String name = scanner.next();
```

```
            System.out.println ("Enter author of book : ");  
            String author = scanner.next();
```

~~```
 System.out.println ("Enter price of book : ");
 int price = scanner.nextInt();
```~~~~```
            System.out.println ("Enter number of pages of  
                the book : ");  
            int numPages = scanner.nextInt();
```~~

```
            books[i] = new Book (name, author, price, numPages);  
        } .
```

```
        System.out.println ("\nBook Details : ");
```

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

```
        {  
            System.out.println ("Book " + (i + 1) + " : " +  
                books[i]);  
        }
```

y. System.out.println (" Ranisha 1Bm22cs218.");

OUTPUT:-

Enter the number of books : 2

Enter name of the book : Harry Potter

Enter author of the book : JK Rowling

Enter the price of the book : 500

Enter the number of pages of the book : 600

Enter the name of the book : Jungle Book

Enter author of the book : Ruskin Bond

Enter price of the book : 200

Enter the number of pages of the book : 300

~~Book details :~~

Book 1:

Book name : Harry Potter

Author name : JK Rowling

Price : 500

Number of pages : 600

Book 2:

Book Name : Jungle Book

Author name : Ruskin Bond

Price : 200

Number of pages : 300

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ADDITIONAL PROGRAM:-

```
class OverloadDemo {  
    void test() {  
        System.out.println("No parameters");  
    }  
    void test(int a) {  
        System.out.println("a:" + a);  
    }  
    void test(int a, int b) {  
        System.out.println("a and b:" + a + " " + b);  
    }  
}
```

```
double test(double a) {  
    System.out.println("double a:" + a); return  
    a * a;  
}
```

Class Overload {

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

```
    OverloadDemo ob = new OverloadDemo();
```

```
    double result;
```

```
    ob.test();
```

```
    ob.test(10);
```

```
    ob.test(10, 20);
```

```
    result = ob.test(12, 2);
```

```
    System.out.println("ob.test(12, 2) = " + result);
```

Output :-

no parameters

a: 10

a and b: 10 20

double a: 123.25

Result of test(123.2): 15178.240000 ... 2

$$\sqrt{a^3 + b^3}$$