Algorithm for Lab Program - 3 :-

Step - 1 : Create a class named Book.

Step - 2 : In Book class declare name, author, Price, num_Pages.

Step - 3 : Set the values for name, author, Price, num_Pages using constructor Book().

Step - 4 : Create a method named getdetails().

Step - 5 : In the getdetails() method Input the values of author, Price, name, num_Pages by from the user.

Step - 6 : Now create a tostring() method to display complete details of the book.

Step - 7 : In the to string() method return the name, author, Price and num_Pages of the book.

Step - 8 : Now create the main class named Bookmain.

Step - 9 : Declare i and n in the Bookmain class.

Step - 10 : Input the value of n from the user.

Step - 11 : Now create n no. of objects for Book class.

Step - 12 : SET i=0.

Step - 13 : Repeat step-14 while i<n.

Step - 14 : SET i = i+1.

step-15 : SET b[i]=new Book().

step-16 : Now call the all statements from the
get getdetails() method and e For the value
of n given by the user those many
objects are created.

step-17 : SET i=0.
step-18 : Repeat step-19 while i<n.
step-19 : PRINT b[i].

Lab-Program-3

```
import java.util.Scanner;
import java.lang.*;
class Book
{

    String name;
    String author;
    double price;
    double num_Pages;
    Book()
    {

        name = " ";
        author = " ";
        price = 0.0;
        num_Pages = 0;
    }
```

```java
Public void getDetails ()
{
    Scanner ss= new Scanner (System.in);
    System.out.Println ("Enter the Book Details");
    System.out.Println ("Enter Book Name :");
    name = ss.next();
    System.out.Println ("Enter the Name of the Author");
    author = ss.next();
    System.out.Println ("Enter the Price of the book");
    Price = ss.nextDouble();
    System.out.Println ("Enter the number of Pages
    num_Pages = ss.nextDouble();                 in the book");
}
Public String toString ()
{
    return ("In the name of the book : "+name+"
            In the author of the book; "+author+"
            In The Price of the book : "+ Price" In The
            number of Pages in book:"+num_Pages);
}
class Bookmain {
    Public static void main (String args[])
    {
        int i,n;
        Scanner ss= new Scanner (System.in);
        System.out.Println ("Enter the number of books
        n= ss.nextInt();
        Book b[]= new Book();
        for (i=0; i<n; i++)
        {
            b[i]= new Book();
            b[i].getDetails();
        }
```

```
for (i=0; i<n; i++)
{
    System.out.Println ("DETAILS OF BOOK"+(i+0));
    System.out.Println (b[i]);
}
}
}
}
```

output

Enter the number of books
2

Enter the Book Details
Enter Book Name:
oo&
Enter the Name of the Author
Rahul
Enter the Price of the book
300
Enter the number of Pages in the book
100

Enter the Book Details
Enter Book Name:
COA,
Enter the Name of the Author
vijay
Enter the Price of the book
400
Enter the number of Pages in the book
200

DETAILS OF BOOK 1

The name of the book : ooj
The author of the book : Rahul.
The Price of the book : 300.0
Number of Pages in book : 100.0

DETAILS of BOOK 2

The name of the book : COA.
The author of the book : vijay.
The Price of the book : 400.0
Number of Pages in book : 200.0