LAB PROGRAM 3:

QUESTION :

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.

CODE :

```
class Book_details
{
        private String name,author;

        private double price;

        private int num_pages;


    Book_details()
    {
                name="The Immortals of Meluha";

                author="Amish";

                price=234.00;

                num_pages=390;

    }


    void getDetails()
    {
                Scanner in=new Scanner(System.in);

                System.out.println("\n Enter the book name: ");

                name=in.nextLine();

                System.out.println("\n Enter the author name: ");

                author=in.nextLine();

                System.out.println("\n Enter the the no.of pages: ");

                num_pages=in.nextInt();

                System.out.println("\n Enter the price: ");

                price=in.nextDouble();

    }
```

```java
        public String toString()

        {

                String temp="\n Book name: "+name+"\n Author name: "+author+"\n No. of pages:
"+num_pages+"\n Price: "+price+"\n";

                return(temp);

        }


}
class Book

{

  public static void main(String args[])

  {

        int i,n;

        Scanner in=new Scanner(System.in);

        System.out.print("\n Enter the number of books: ");

        n=in.nextInt();

        Book_details[] obj=new Book_details[n];

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

        {

                obj[i]=new Book_details();

        }

        System.out.println("\t\t***Enter Book Details***");

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

        {

                System.out.println("\n Book "+(i+1)+";");

                obj[i].getDetails();

        }

        System.out.println("\t\t***Book Details***");

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

        {

                System.out.println(obj[i]);

        }
```

```
    }
}
```

OUTPUT :

Command Prompt

```
Microsoft Windows [Version 10.0.18363.693]
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C:\Users\Ramya>cd..

C:\Users>cd..

C:\>cd java

C:\java>javac Book.java

C:\java>java Book

 Enter the number of books: 2
                 ***Enter Book Details***

 Book 1;

 Enter the book name:
BhagadvadGita

 Enter the author name:
Vyasa

 Enter the the no.of pages:
739

 Enter the price:
299.00

 Book 2;

 Enter the book name:
Ramayana

 Enter the author name:
Valmiki

 Enter the the no.of pages:
500

 Enter the price:
546.00
                 ***Book Details***

 Book name: BhagadvadGita
 Author name: Vyasa
 No. of pages: 739
 Price: 299.0


 Book name: Ramayana
 Author name: Valmiki
 No. of pages: 500
 Price: 546.0


C:\java>
```