

# MOHAMMED ABDUL HAMID

## 1BM19CS202

### 3-D

Lab program 3:

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.

```
import java.util.*;
class Book
{
    private String name;
    private String author;
    private double price;
    private int num_pages;

    Book()
    {
        name="xyz";
        author="abc";
        price= 0.0;
        num_pages=10;
    }
    void getdata()
    {
        Scanner sc= new Scanner(System.in);
        System.out.println("enter the name of book");
        name = sc.nextLine();
        System.out.println("enter the name of author");
        author = sc.nextLine();
        System.out.println("enter the price of book");
        price = sc.nextDouble();
        System.out.println("enter the number of pages");
        num_paxtln();
    }
}
```

```

        public String toString()
        {
            return("Book: "+name+"\nAuthor: "+author+"\nPrice: Rs
"+price+"\nNo.of pages: "+num_pages);
        }
    }
    class lab3
    {
        public static void main(String ss[])
        {
            Scanner xx=new Scanner(System.in);
            System.out.println("Enter the no of books:");
            int n=xx.nextInt();
            Book b[]=new Book[n];
            int i;
            System.out.println("Enter the book details");
            for(i=0;i<n;i++)
            {
                System.out.println("Book "+(i+1));
                b[i]=new Book();
                b[i].getdata();
            }
            System.out.println("Printing book details....");
            for(i=0;i<n;i++)
            {
                System.out.println("Book "+(i+1));
                System.out.println(b[i]);
                System.out.println("-----");
            }
        }
    }
}

```

Enter the no of books:

1

Enter the book details

Book 1

enter the name of book

alchemist

enter the name of author

paulo

enter the price of book

700

enter the number of pages

400

Printing book details....

Book 1

Book: alchemist

Author: paulo

Price: Rs 700.0

No.of pages: 400