

### LAB 03

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.

Q. 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 subject. 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.Scanner;
class Book {
    String name, author;
    double price;
    int numPages;
    Book(String name, String author, double price, int numPages) {
        this.name = name;
        this.author = author;
        this.price = price;
        this.numPages = numPages;
    }
    void setDetails() {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter name of the book:");
        name = sc.next();
        System.out.println("Enter author name:");
        author = sc.next();
        System.out.println("Enter price:");
        price = sc.nextInt();
        System.out.println("Enter no. of pages:");
        numPages = sc.nextInt();
    }
    void getDetails() {
        System.out.println("Name of the book: " + name);
        System.out.println("Name of the Author: " + author);
        System.out.println("Price: " + price);
        System.out.println("Number of pages in the book: " + numPages);
    }
}
```

```

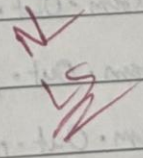
Public String toString () {
    return "Book Name: " + name + "\n" +
    " Author: " + author + "\n" +
    " Price: " + price + "\n" + " Number of Pages: " + numpages;
}

Class My Book {
    Public static void main (String ss []) {
        Scanner sc = new Scanner (System.in);
        System.out.println("Enter the number of books");
        int n = sc.nextInt();
        Book [] books = new Book [n];
        for (int i = 0; i < n; i++) {
            books[i] = new Book ();
            books[i].SetDetails ();
            books[i].getDetails ();
        }
        System.out.println("In All Book Details:");
        for (Book book : books) {
            System.out.println(book);
        }
    }
}

```

### Output

Enter the number of books : 1	All Book Details:
Enter details for book 1:	
Enter Book Name : Effective Java	Book Name : Effective Java
Enter Author Name : Joshua Bloch	Author : Joshua Bloch
Enter Price : 799.50	Price : 799.50
Enter Number of pages : 416	Number of pages : 416



```

import java.util.Scanner;

class Book{
    String name,author;
    double price;
    int numPages;
    Book(String name,String auhtor,double price,int numPages){
        this.name=name;
        this.author=author;
        this.price=price;
        this.numPages=numPages;}
    void setDetails(){
        Scanner sc=new Scanner(System.in);
        System.out.println("enter name of the book:");
        name=sc.next();
        System.out.println("enter author of the book:");
        author=sc.next();
        System.out.println("enter price of the book:");
        price=sc.nextInt();
        System.out.println("enter number of pages of the book:");
        numPages=sc.nextInt();}
    void getDetails(){
        System.out.println("Name of the book:"+name);
        System.out.println("Author of the book:"+author);
        System.out.println("Price of the book:"+price);
        System.out.println("Number of pages of the book:"+numPages);}
    public String toString(){
        return "Book Name:"+name+"\n"+"Author:"+author+"\n"+"price:"+price+"\n"+"Number of
        pages:"+numPages;}
    }

    class MyBook{
        public static void main(String ss[]){

```



```

Scanner sc=new Scanner(System.in);

System.out.println("Enter the number of books");

int n=sc.nextInt();

Book[] books=new Book[n];

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

books[i]=new Book("time","gallium",99,150);

books[i].setDetails();

books[i].getDetails();

}

System.out.println("\n All book details:");

for(Book book:books){

System.out.println(book);

System.out.println();

}

}

}

}

```

```

D:\24BMSCE>javac MyBook.java

D:\24BMSCE>java MyBook
Enter the number of books
2
enter name of the book:
motivation
enter author of the book:
shakesphere
enter price of the book:
200
enter number of pages of the book:
1999
Name of the book:motivation
Author of the book:shakesphere
Price of the book:200.0
Number of pages of the book:1999
enter name of the book:
story
enter author of the book:
william
enter price of the book:
500
enter number of pages of the book:
4678
Name of the book:story
Author of the book:william
Price of the book:500.0
Number of pages of the book:4678

All book details:
Book Name:motivation
Author:shakesphere
price:200.0
Number of pages:1999

Book Name:story
Author:william
price:500.0
Number of pages:4678

D:\24BMSCE>|

```