

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.

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.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.nextDouble();
        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 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 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("atlas", "gallium", 200, 1999);
            books[i].setDetails();
            books[i].getDetails();
        }
        System.out.println("\n All Book Details:");
        for (Book book : books) {
            s.o.pln(book);
        }
    }
}

```

o/p:

Enter the number of books
2
enter name of the book :
story
enter author of the book :
william
enter price of the book :
600
Name of the book : story
Author of the book : william
Price of the book : 600.0
Number of Pages of the book : 789
enter name of the book :
robert
enter price of the book :
400
enter number of pages of the book :
7865
Name of the book : motivation
Author of the book : robert

Price of the book : 400.0
Number of pages of the book : 7865

All book details:

Book Name : story
Author : william
price : 600.0
Number of pages : 789
Book Name : motivation
Author : robert
price : 400.0
Number of pages : 7865

```

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>|

```