

```

class Book{
    String name, author;
    float price;
    int num_pages;

    Book(String name, String author, float price, int num_pages){
        this.name = name;
        this.author = author;
        this.price = price;
        this.num_pages = num_pages;
    }

    public void setDetails(){
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the name of the book: ");
        name = sc.next();
        System.out.println("Enter the name of the author: ");
        author = sc.next();
        System.out.println("Enter the price of the book: ");
        price = sc.nextFloat();
        System.out.println("Enter the num of pages: ");
        numPages = sc.nextInt();
    }

    public void getDetails(){
        System.out.println("Name of the book: " + name);
        System.out.println("Name of the author: " + author);
        System.out.println("Price of the book: " + price);
        System.out.println("Number of pages: " + num_pages);
    }

    public String toString(){
        return "Book Name: " + name + " Author Name: " + author + " Price: " +
price + " Number Of Pages: " + num_pages;
    }
}

public class Lab {
    public static void main(String[] args) {
        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].setDetails();
            books[i].getDetails();
        }
    }
}

```

```
        for(int i=0; i<n; i++){  
            System.out.println(books[i].toString());  
        }  
    }  
}
```

```
Enter the number of books:  
2  
Enter the name of the book:  
1984  
Enter the name of the author:  
Anthony  
Enter the price of the book:  
400  
Enter the num of pages:  
200  
Enter the name of the book:  
MockingBird  
Enter the name of the author:  
Harper  
Enter the price of the book:  
500  
Enter the num of pages:  
150  
Name of the book: 1984  
Name of the author: Anthony  
Price of the book: 400.0  
Number of pages: 200  
Name of the book: MockingBird  
Name of the author: Harper  
Price of the book: 500.0  
Number of pages: 150
```

③ Create a class Book which contains the members: name, 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.

19/10/2021

Class Book {

String name, author;

double price;

int num-pages;

Book(String name, String author, float price, int num-pages) {

this.name = name;

this.author = author;

this.price = price;

this.num-pages = num-pages;

}

public void setDetails() {

Scanner sc = new Scanner(System.in);

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

name = sc.next();

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

author = sc.next();

System.out.println("Enter the price of the book: ");

price = sc.nextFloat();

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

numPages = sc.nextInt();

}

public void getDetails() {

System.out.println("Name of the book: " + name);

System.out.println("Name of the author: " + author);

System.out.println("Price of the book: " + price);

System.out.println("Number of pages: " + numPages);

}

public String toString() {

return "Book Name: " + name + " Author Name: " + author

+ " Price: " + price + " Number of Pages: " + numPages;

}

public class Lab {

public static void main(String[] args) {

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].setDetails();

}

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

books[i].getDetails();

}

Output: Enter the number of books

2

Enter the name of the book:

1984

Enter the name of the author:

Anthony

Enter price of the book:

400

Enter the number of pages:

800

Enter the name of the book:

Mockingbird

Enter the name of the author:

Harpers

Enter the price of the book:

500

Enter the number of pages:

150

Name of the book : 1984

Name of the author : Anthony

Price of the book : 400

Number of pages : 200

Name of the book : Mockingbird

Name of the author : Harper

Price of the book : 500

Number of pages : 150

19/10/24