

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 get and set the details of the objects. Include toString() method that could display the complete details of the book. Develop a Java prog. to create a book objects.

code:

```
import java.util.Scanner;

class Book
{
    private
    String name, auth;
    float price, num-pages;
    public
    Scanner s = new Scanner (System.in);
    Book()
    {
        name = "xyz";
        auth = "abc";
        price = 0;
        num-pages = 0;
    }
    void getdata()
    {
        System.out.print ("Enter Book Name:");
        name = s.next();
        System.out.print ("Enter Author Name:");
        auth = s.next();
        System.out.print ("Enter Price:");
        price = s.nextFloat();
    }
}
```

```

        System.out.print ("Enter No. of pages: ");
        num_pages = s.nextFloat();
    }
    public String toString()
    {
        return ("Book Name: " + name + "\n Author Name = "
            + auth + "\n price = " + price + "\n No. of Pages = "
            + num_pages);
    }
}

```

```

}
class BookMain
{
    public static void main (String args[])
    {
        int n;
        Scanner s = new Scanner (System.in);
        System.out.println ("Enter No. of Books: ");
        n = s.nextInt();
        Book b[] = new Book [n];
        for (int i=0 ; i<n ; i++)
        {
            b[i] = new Book();
            System.out.println ("Book No- " + (i+1));
            b[i].getdet();
        }
        for (int i=0; i<n ; i++)
        {
            System.out.println ("\n Details of Book " + (i+1) + " : ");
            System.out.println (b[i]);
        }
    }
}
}

```



BookInfo.java

Saved



```
1 import java.util.Scanner;
2 class Book
3 {
4     private
5     String name,auth;
6     float price,num_pages;
7     public
8     Scanner s=new Scanner(System.in);
9     Book()
10    {
11        name="xyz";
12        auth="abc";
13        price=0;
14        num_pages=0;
15    }
16    void getdet()
17    {
18        System.out.print("Enter Book Name:");
19        name=s.next();
20        System.out.print("Enter Author Name:");
21        auth=s.next();
22        System.out.print("Enter Price:");
23        price=s.nextFloat();
24        System.out.print("Enter No. of pages:");
25        num_pages=s.nextFloat();
26    }
27    public String toString()
28    {
29        return("Book Name="+name+"\nAuthor Name="+auth+"\nprice="+price+"\nNo. of Pages="+num_pages);
30    }
31 }
32 class BookMain
33 {
34     public static void main(String args[])
35     {
36         int n;
37         Scanner s=new Scanner(System.in);
38         System.out.println("Enter No. of Books:");
39         n=s.nextInt();
40         Book b[]=new Book[n];
41         for(int i=0;i<n;i++)
42         {
43             b[i]=new Book();
44             System.out.println("Book No-"+(i+1));
45             b[i].getdet();
46         }
47         for(int i=0;i<n;i++)
48         {
49             System.out.println("\nDetails of Book "+(i+1)+",");
50             System.out.println(b[i]);
51         }
52     }
53 }
```



```
Enter No. of Books:
2
Book No-1
Enter Book Name:Famous
Enter Author Name:Gyllenhaal
Enter Price:699
Enter No. of pages:436
Book No-2
Enter Book Name:North
Enter Author Name:Trippier
Enter Price:899
Enter No. of pages:1232
```

```
Details of Book 1,
Book Name=Famous
Author Name=Gyllenhaal
price=699.0
No. of Pages=436.0
```

```
Details of Book 2,
Book Name=North
Author Name=Trippier
price=899.0
No. of Pages=1232.0
```

```
Process finished.
```