Program III

Write a java program to create a class Book which contains 4 members: name, author, price, num-pages, Include a constructor to set values for members. Include method to set and get details of objects. Include a tostring() method that could display complete details of the book. & Create n book objects.

```java
import java.util.Scanner;
class Book
{
    String name;
    String author;
    double price;
    int numPages;
    Book(){}
    Book (String name, string author, double price, int
                 numPages)
    {   this.name = name;
        this.author = author;
        this.price = price;
        this.numPages = numPages;
    }

    void details()
    {
        Scanner sc = new Scanner (System.in);
        System.out.println ("Enter name of the book: ");
        name = sc.nextLine ();
        System.out.println ("Enter name of the author: ");
        author = sc.nextLine ();
        System.out.println ("Enter price: ");
        price = sc.nextInt();
        System.out.println ("Enter number of pages: ");
        pages = sc.nextInt();
    }
```

```java
void display ()
{    System.out.printer ("Name of book:" + name);
     System.out.printer (" Author of book: " + author);
     System.out.printer (" Number of pages: " + numPages);
     system.out.printer (" Price: " + price);
}

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.printer ("Enter number of books"
         int n = sc.nextInt();
         Book [] books = new Book[n];
         for (int i = 0; i < n; i++)
         {

             books[i] = newBook();
             books[i].setDetails ();

         }
         System.out.printer ("\n Book Details: ");
         for (Book book: books)
         {    System.out.printer (book);
         }
     }
}
```

Output

Enter the number of books:

2

Enter name of the book:

Silent Patient

Enter name of the author:

Alex Michaelides

Enter price:

499

Enter number of pages

325

Enter name of the book:

~~Testy~~ AGGGTM

Enter name of the author:

Holly Jackson

Enter price:

450

Enter number of pages:

400

Book Details:

Book name: Silent Patient

Author: Alex Michaelides

Price: 499

Number of pages: 325

Book name: AGGGTM

Author: Holly Jackson

Price: 450

Number of pages: 400

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```java
import java.util.Scanner;
class Book
{
        String name;
        String author;
        double price;
        int numPages;
        Book(){}
        Book(String name,String author,double price,int numPages)
        {
                this.name=name;
                this.author=author;
                this.price=price;
                this.numPages=numPages;
        }
        void details()
        {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter name of the book:");
                name = sc.nextLine();
                System.out.println("Enter name of the author:");
                author = sc.nextLine();
                System.out.println("Enter price:");
                price = sc.nextDouble();
                System.out.println("Enter number of pages:");
                numPages = sc.nextInt();
                sc.nextLine();
        }
        void display()
        {
                System.out.println("Name of the book: "+name);
```

```java
                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 name: "+author+"\n"+"Number of pages: "+numPages+"\n"+"Price of the book: "+price;

        }


}

class MyBook

{

        public static void main(String[] args)

        {

                Scanner sc = new Scanner(System.in);

                System.out.println("Enter 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].details();

                }

                System.out.println("\nBook details:");

                for(Book book:books)

                {       System.out.println(book); }

        }

}
```

```
D:\1BM23CS330>java MyBook
Enter number of books:
2
Enter name of the book:
Silent Patient
Enter name of the author:
Alex Michaelides
Enter price:
499
Enter number of pages:
325
Enter name of the book:
AGGGTM
Enter name of the author:
Holly Jackson
Enter price:
450
Enter number of pages:
400

Book details:
Book name: Silent Patient
Author name: Alex Michaelides
Number of pages: 325
Price of the book: 499.0
Book name: AGGGTM
Author name: Holly Jackson
Number of pages: 400
Price of the book: 450.0

D:\1BM23CS330>
```