Lab 3:

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.

```
Lab 3 +
                                                                                                                                                                                                                                                                       void get Details () }
                                                                                                                                                                                                                                                                                    specit ("Name of the bods:" + name);
                                                                                                                                                                                                                                                                                      South ("Norme of Allens" + norm);
South ("Norme of Allens" "+ auction);
South ("Paris" + price);
South ("number of pages in the bod(:" + neurologies); f
 import java. Will . Sianne;
chan soot }
    private Nursy rame;

(not a class look which within fact member, name, author, name, author, or the state of the details of the class of the details of the class of the class of the class of the state of the state of the class of the state of the state
                                                                                                                                                                                                                                                                               public string to string ()-
                                                                                                                                                                                                                                                                                                    Tulun "book ware:" + have + " \n" + "Author;" + author + "vn
                                                                                                                                                                                                                                                                                                     " price: " + price+" \n" + "Number of page: " +
                                                                                                                                                                                                                                                                                                                           numPages;
  day sould
             shing name , author ;
                                                                                                                                                                                                                                                                         claus rypook {
                                                                                                                                                                                                                                                                                     public static word main (String[] any) {
               double price;
                                                                                                                                                                                                                                                                                               Scornus SC= Mill Scornus (Syllim in);
Sout ("Ente The Mp of both ");
but n= SC next The ();
                Book (Ship name, String author, darble raice, int numbages)?
                                 this nam = norm;
this nutther = author;
this paice = paice;
                                                                                                                                                                                                                                                                                                            Book [] . books = new Dock [n];
                                                                                                                                                                                                                                                                                                            por (int 1=0; izn; i++){
                                                                                                                                                                                                                                                                                                                 bookali) = new Book ():
                                      this . numbages = numbages ; }
                                                                                                                                                                                                                                                                                                                          books [i] at Details (1)
                                                                                                                                                                                                                                                                                                                           books [i], get Details ();
                                                                                                                                                                                                                                                                                                 sout ("In AU Back Details");
for (dock back back)?
                              Scanner St = new Scanner ( System, in);
                                System out paint in ("Britis nam of the bede:");
                               name = sc. nunt();
Sout ("8 den author name: ");
                                                                                                                                                                                                                                                                                                                     sout (box);
                                sout ("Gritu price;");
                                mice = sc. next 3nt ();
                                  raut (" Enter no g pages 1");
numpages = s(num int (); }
```

```
Ender the norm of the book:

Silvet (Patients

Ender norm of the Author)

All Nichaelides

Chân pres

499

Ender hom of the Author:

Helly Tocken

Ender number of pages:

400

Ender number o
```

Code:

```
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;
  }
  Book() {
    this.name = "";
    this.author = "";
    this.price = 0.0;
    this.numPages = 0;
  }
  void setDetails(){
    Scanner sc=new Scanner(System.in);
    System.out.println("Enter the name of the book:");
    name=sc.nextLine();
    System.out.println("Enter author name:");
    author=sc.nextLine();
    System.out.println("Enter price:");
    price=sc.nextDouble();
    System.out.println("Enter number of pages:");
    numPages=sc.nextInt();
    sc.nextLine();
```

```
}
  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(){
             "Book
                      Name:"+name+"\nAuthor:"+author+"\nPrice:"+price+"\nNumber
pages:"+numPages;
  }
}
class MyBook{
    public static void main(String[] args){
       Scanner sc=new Scanner(System.in);
       System.out.println("Enter the number of books:");
       int n=sc.nextInt();
       sc.nextLine();
       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("All book details:");
       for(Book book:books){
       System.out.println(book);
```

Output:

```
D:\Java_Lab_Programs>javac MyBook.java
D:\Java_Lab_Programs>java MyBook
Enter the number of books:
2
Enter the name of the book:
Harry Potter
Enter author name:
J K Rowling
Enter price:
1500
Enter number of pages:
1200
Name of the book:Harry Potter
Name of the author:J K Rowling
Price:1500.0
Number of pages in the book:1200
Enter the name of the book:
Silent Patient
Enter author name:
Alex Michaelides
Enter price:
350
Enter number of pages:
287
Name of the book:Silent Patient
Name of the author:Alex Michaelides
Price:350.0
Number of pages in the book:287
All book details:
Book Name:Harry Potter
Author:J K Rowling
Price:1500.0
Number of pages:1200
Book Name:Silent Patient
Author:Alex Michaelides
Price:350.0
Number of pages:287
D:\Java_Lab_Programs>
```