WEEK 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.

Source Code:

```
import java.util.Scanner;
class Book {
   int price;
   String author;
   String name;
   int pages;
   public Book(int price, String author, String name, int pages) {
        this.price = price;
        this.author = author;
        this.name = name;
        this.pages = pages;
    public void setter() {
        System.out.println("enter the price, author, name and pages of the book");
        Scanner sc = new Scanner(System.in);
        this.price=sc.nextInt();
        this.author= sc.next();
         this.name=sc.next();
         this.pages=sc.nextInt();
    public void getter() {
        System.out.println("Book Details:");
        System.out.println("Price:"+price);
        System.out.println("Author:"+author);
        System.out.println("Name:"+name);
        System.out.println("Pages:"+pages);
   public String toString() {
                return "these are book details";
```

```
public class Pro {
   public static void main(String[] args) {
        Scanner s1 = new Scanner(System.in);
        System.out.println("enter the number of books");
        int n = s1.nextInt();

        Book []b1 = new Book[n];

        for(int i=0;i<n;i++){
            b1[i] = new Book(200,"sachin","The Pride",111);
            b1[i].getter();
            b1[i].setter();
            b1[i].getter();
        System.out.println(b1[i]);
        }
    }
}</pre>
```

OUTPUT:

```
enter the number of books
Book Details:
Price:200
Author:sachin
Name:The Pride
Pages:111
enter the price,author,name and pages of the book
150
virat
TheCentury
120
Book Details:
Price:150
Author:virat
Name:TheCentury
Pages:120
these are book details
```

OBSERVATION:

```
create a claw which confains member name author, Price numpuye, & include a constructor, a seller & a getter include a string
 method w.A. A. P to create n book objects
us
  class Book
   Prévate Strengename;
   Prevate strong author,
   Pravade String price;
   Prévale ent num pages;
  Public Book (string name, string author, double price, int num Pagus)
     this name = name ?
     this author = author;
     this. Price = price;
     thes. humpages = numpages;
  Public void selter (string name, string author, double price,
      Int num Pages)
       this name = names
       this townshow = author,
       thes. price = price.
      this numpages = numpages;
   Public String getter()
      return to string ();
   Public strong to Strong ()
     return " Book Name: " + name + "; Author": + author + ", Price
         ers" + Price + ", Pages " + num Pager,
   4
```

```
Public class Bookmain
 Public States vold muln (strang [] angs)
   Scanners Sx = new Scanner (Syptem. ?n);
   System. out. Prentl A (" Enter no. of books");
         h = Sx onext Int ();
   Ent
  Book [] books = new 1300 k [n];
 for ( 9nt 9=0; 92n; 9++)
 System. Out. Println 1" Enter details of book" + (EH));
 System o out. Prently l' Enter name, author, price, no of pages,);
          String name = sx.nextline();
          Strong author = sx. nextline();
          double - price = sx-nextDouble();
          Int numpages = sx. nextInt();
   books [i] = new Book [name, author, price, numpages);
  System. out. println (books[i] getteren);
    Sx. close ();
```

OUTPUT : - BOOK :

Enter the number of books: 2 Enter name of books: ABC

Enter author of book 1: x42

Enter price of books: 99

Enter number of Pages in book 1 = 150

Enter the name of books : abc

Enter author of books: xyz

Enter profice of 60062: 199

Enter number of page in book 2 = 200

Book Deteils.

Book name : ABC

Author name: XYZ

Price: 99

Number of Page : 950

Book name ; abc

Author name; xy3

Pronce : 199

number of pages: 200