

### 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]);
        }
    }
}

```

Output:

```

enter the number of books
1
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

```

Written code and output:

lab-3

③ Write a class book which contains four methods: name, author, price, num-pages. Include a constructor to set values. Include methods to set and get details of objects. Include a toString() method that could display the complete details of the book.

```
class Book {
    String name;
    String author;
    int price;
    int pages;

    public Book(String name, String author, int price, int pages) {
        this.name = name;
        this.author = author;
        this.price = price;
        this.pages = pages;
    }

    public String toString() {
        return "Name: " + name + " Author: " + author + " Price: " + price +
            " Pages: " + pages;
    }
}

class Bookstore {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter details for the number of books");
        int n = sc.nextInt();
        scanner.nextLine();
        Books[] books = new Book[n];
        for (int i = 0; i < n; i++) {
            System.out.println("Enter details of book");
            System.out.println("Name:");
            String name = sc.nextLine();
            System.out.println("Author:");
            String author = sc.nextLine();
        }
    }
}
```

```

system.out.print("Author:");
String author = sc.nextLine();
system.out.print("Price:");
double price = sc.nextDouble();
system.out.print("Number of pages");
int numPages = sc.nextInt();
books[i] = new Book(name, author, price, numPages);
for(int i = 0; i < books.length; i++)
    system.out.println(books[i].getDetails());
}
scanner.close();
}
}

```

Output:

~~Details of Book~~ Enter no of books 3

enter details of book 1.	enter details of book 2.	enter details of book 3
enter name:	enter name:	enter name:
wake up	rise up	sleep
enter author:	enter author	enter author
shamrao	shreyas	goggin
enter price:	enter price	enter price
500	1000	600
enter the no of pages	enter the no pages	enter the no of pages
169	250	300

details of books.

Book [name: wake up author: shamrao price: 500 pages 169]  
 Book [name: rise up author: shreyas price: 1000 page 250]  
 Book [name: sleep author: goggin price: 600 pages 300]

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