

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:

```

PS C:\Users\satis\OneDrive\Documents\ooj_lab> javac Pro.java
PS C:\Users\satis\OneDrive\Documents\ooj_lab> java Pro
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 & Output :

WEEK - 3

CLASSMATE

Date _____
Page _____

- 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 books.

```
→ Class Book {  
    String name;  
    String author;  
    int price;  
    int num-pages;  
  
    Book (String name, String author, int price,  
          int num-pages) {  
        this.name = name;  
        this.author = author;  
        this.price = price;  
        this.num-pages = num-pages;  
    }  
  
    Scanner sc = new Scanner (System.in);  
  
    void set() {  
        name = sc.next();  
        author = sc.next();  
        price = sc.nextInt();  
        num-pages = sc.nextInt();  
    }  
}
```



```

void display()
{
    cout << "The book details are";
    system.out.println(name);
    system.out.println(author);
    system.out.println(price);
    system.out.println(num-pages);
}

```

```

public String toString()
{
    System.out.println("The book details are  
displayed by toString method");
    system.out.println(name);
    system.out.println(author);
    system.out.print(price);
    system.out.print(num-pages);
}
}

```

```

}
class main
{
    public static void main (String[] args)
    {
        Scanner S1 = new Scanner(System.in);

```

```

        System.out.println("enter the number of  
objects");
        int n = S1.nextInt();

```

```

        Book[] b1 = new Book[n];
        for (int i=0; i<n; i++){
            b1[i] = new Book(200, "sachin",  
"The Pride", 120);
            b1[i].display();
        }
    }
}

```

```

        b1[i].display();
        b1[i].set();
        b1[i].display();
    }
    }
}

```

Output:

enter the number of books

1

~~these are~~ Book Details:

Price: 200

Author: sachin

Name: The Pride

Pages: 111

enter the price, author, name and pages of the book

150

virat

The Century

120

Book Details:

Price: 150

Author: virat

Name: The Century

Pages: 120

these are book details.