## **Assignment 4:**

Using static variables, static methods, static blocks, create a java program and display the results. Using "this" word get data and display the results

## **Source Code:**

```
import java.util.Scanner;
class StaticImplementation {
    static int counter = -1;
    int value;
    static {
        counter++;
        System.out.println("Counter incremented to " + counter + " in static block");
    }
    StaticImplementation(int value) {
        this.value = value;
        counter++;
        System.out.println("Counter incremented to " + counter + " in constructor");
    }
    void display() {
        System.out.println("Value = " + this.value);
    }
}
public class Main {
    public static void main(String[] args) {
        StaticImplementation[] arr = new StaticImplementation[3];
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter 3 integers:");
        for (int i = 0; i < arr.length; i++) {</pre>
            int value = sc.nextInt();
            arr[i] = new StaticImplementation(value);
        }
        sc.close();
        System.out.println("Displaying values using this keyword:");
        for (int i = 0; i < arr.length; i++) {</pre>
            arr[i].display();
        }
    }
}
```

## **Output:**

```
Enter 3 integers:

5

Counter incremented to 0 in static block

Counter incremented to 1 in constructor

3

Counter incremented to 2 in constructor

9

Counter incremented to 3 in constructor

Displaying values using this keyword:

Value = 5

Value = 3

Value = 9
```