

LAB 1

- Initializing all the variables , Here Numbers is taken as a string because it is easy to split the string.
- Finding the Sum , by adding all the variables
- Finding the Length of the Numbers present in the Whole String
- Min and Max Is found by built in Function
- With the help of a Menu Driven Dashboard, we can access all the functions

```
1 import java.util.Scanner;
2
3 public class LabOne {
4
5     static Scanner scan = new Scanner(System.in);
6     static float sum = 0;
7     static int count = 0;
8     static int min = Integer.MAX_VALUE;
9     static int max = Integer.MIN_VALUE;
10    static String Numbers = "";
11
12    static int number(){
13        return Integer.parseInt(scan.nextLine());
14    }
15
16    static void viewall(){
17        System.out.println("Entered Numbers: " + Numbers);
18    }
19
20    static void stats(int Number){
21        sum += Number;
22        count++;
23        min = min(min, Number);
24        max = max(max, Number);
25    }
26
27    static int min(int a, int b){
28        return a < b ? a : b;
29    }
30
31    static int max(int a, int b){
32        return a > b ? a : b;
33    }
34
35    Run | Debug
36    public static void main(String[] args){
37        boolean exit = false;
38        do {
39            System.out.println("\nEnter Your Choice");
40            System.out.println("\t1. Enter Your Number");
41            System.out.println("\t2. View all entered Numbers");
42            System.out.println("\t3. Print Stats");
43            System.out.println("\t4. Reset to Zero");
44            System.out.println("\t5. Exit");
```

- Exit and Clear Screen is made up with the help of a built function

```
public static void main(String[] args){
    System.out.println(x:"6. Clear Screen");
    int choice = Integer.parseInt(scan.nextLine());

    switch (choice) {
        case 1:
            System.out.println(x:"Enter the Number");
            int num = number();
            stats(num);
            Numbers += num + " ";
            break;
        case 2:
            viewall();
            break;
        case 3:
            System.out.println("Sum: " + sum);
            System.out.println("Average: " + (sum / count));
            System.out.println("Min: " + min);
            System.out.println("Max: " + max);
            break;
        case 4:
            sum = 0;
            count = 0;
            min = Integer.MAX_VALUE;
            max = Integer.MIN_VALUE;
            Numbers = "";
            break;
        case 5:
            exit = true;
            break;
        case 6:
            clearScreen();
            break;
        default:
            System.out.println(x:"Invalid choice. Please try again.");
    }
} while (!exit);
}

static void clearScreen(){
    System.out.print(s:"\033[H\033[2J");
    System.out.flush();
}
```