



NEW YORK CITY COLLEGE OF TECHNOLOGY THE CITY UNIVERSITY OF NEW YORK
Department of Computer Engineering Technology 300 Jay Street, Brooklyn, NY 11201-1909

LAB REPORT

CET 3640 – OL30

**(SOFTWARE FOR COMPUTER
CONTROL)**

LAB#2

JAVA PROGRAM WITH WHILE LOOP

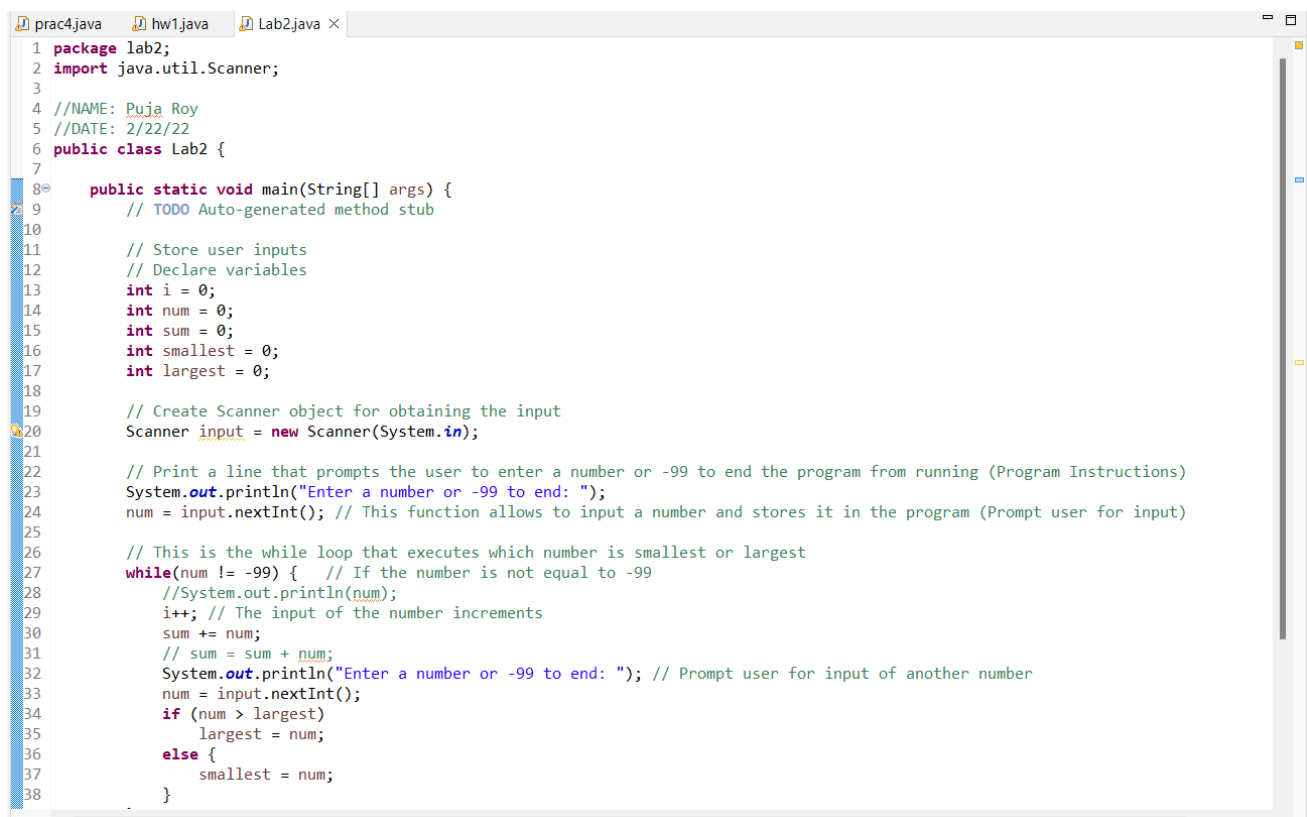
Name: Puja Roy

Date: 2/22/22

Due Date: 2/26/22

DESCRIPTION OF THE LAB:

In this lab, I wrote a java program in Eclipse using a while loop that allows a user to enter 10 integers and end the program by entering -99. In this program, I declared variables of the number, sum, smallest and largest values that stores the user inputs. I created a scanner object for obtaining the user's input. Then, the program prompts the user to enter a number or -99 to end the program from running. The while loop in the program executes which number is smallest or largest. If the number is not equal to -99, the input of the number increments which determines if the input is smallest or largest. Lastly, the output displays the smallest, largest, sum and average of the user's input.



```
1 package lab2;
2 import java.util.Scanner;
3
4 //NAME: Puja Roy
5 //DATE: 2/22/22
6 public class Lab2 {
7
8     public static void main(String[] args) {
9         // TODO Auto-generated method stub
10
11         // Store user inputs
12         // Declare variables
13         int i = 0;
14         int num = 0;
15         int sum = 0;
16         int smallest = 0;
17         int largest = 0;
18
19         // Create Scanner object for obtaining the input
20         Scanner input = new Scanner(System.in);
21
22         // Print a line that prompts the user to enter a number or -99 to end the program from running (Program Instructions)
23         System.out.println("Enter a number or -99 to end: ");
24         num = input.nextInt(); // This function allows to input a number and stores it in the program (Prompt user for input)
25
26         // This is the while loop that executes which number is smallest or largest
27         while(num != -99) { // If the number is not equal to -99
28             //System.out.println(num);
29             i++; // The input of the number increments
30             sum += num;
31             // sum = sum + num;
32             System.out.println("Enter a number or -99 to end: "); // Prompt user for input of another number
33             num = input.nextInt();
34             if (num > largest)
35                 largest = num;
36             else {
37                 smallest = num;
38             }
39         }
40     }
41 }
```

```
HelloPuja.java  prac4.java  hw1.java  Lab2.java ×
1 package lab2;
2 import java.util.Scanner;
3
4 //NAME: Puja Roy
5 //DATE: 2/22/22
6 public class Lab2 {
7
8     ...
9 }

Console ×
<terminated> Lab2 [Java Application] C:\Users\pujar.p2\pool\plugins\org.eclipse.justj.openjdk.h
Enter a number or -99 to end:
100
Enter a number or -99 to end:
200
Enter a number or -99 to end:
300
Enter a number or -99 to end:
400
Enter a number or -99 to end:
500
Enter a number or -99 to end:
600
Enter a number or -99 to end:
700
Enter a number or -99 to end:
800
Enter a number or -99 to end:
900
Enter a number or -99 to end:
1000
Enter a number or -99 to end:
-99
Smallest value entered = -99
Largest value entered = 1000
Sum = 5500
Average = 550.0
```

FLOW CHART OF THE PROGRAM

