



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#1

JAVA PROGRAM WITH MATH OPERATIONS

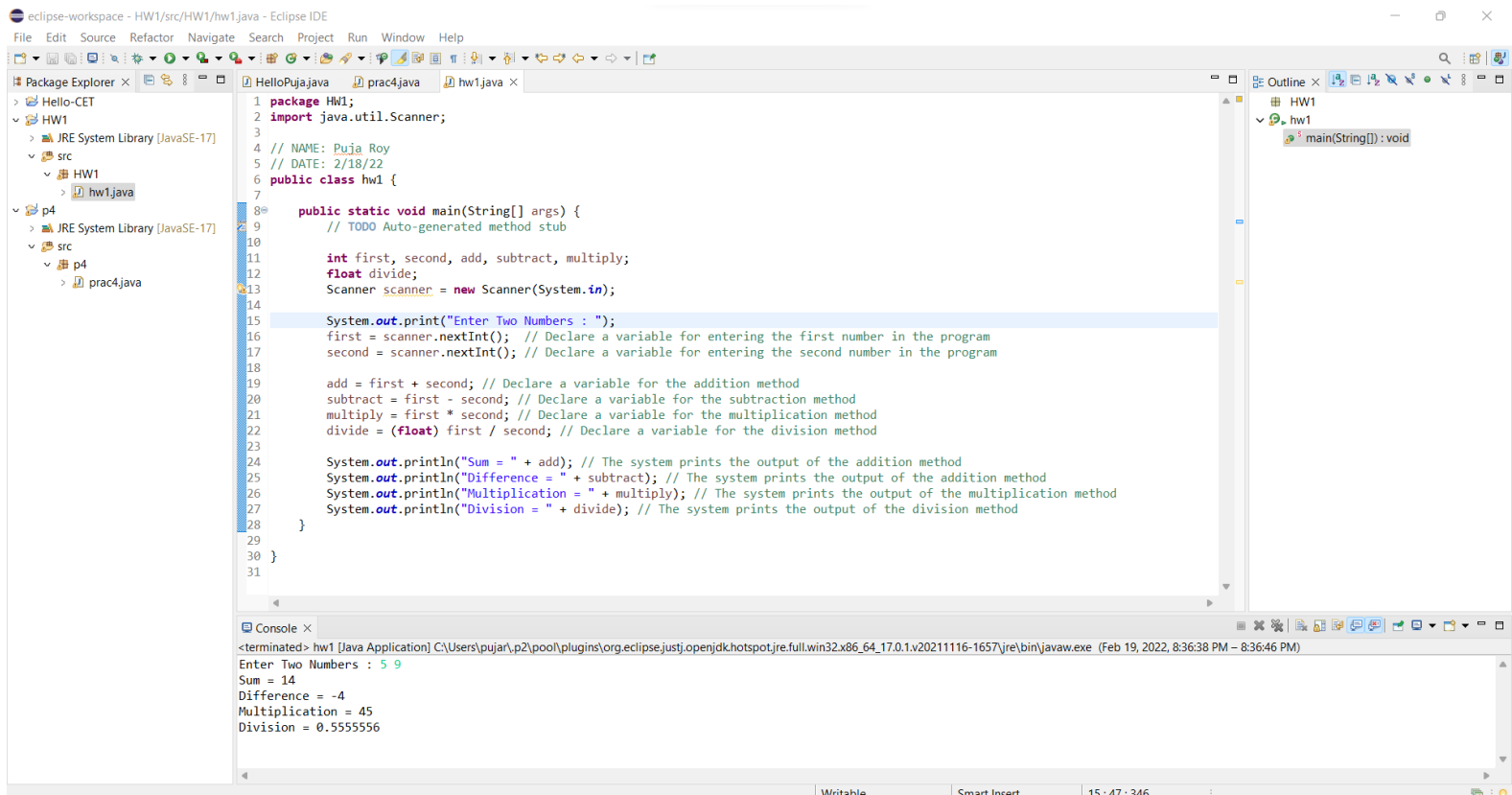
Name: Puja Roy

Date: 2/18/22

Due Date: 2/19/22

DESCRIPTION OF THE LAB:

In this lab, I wrote a simple java program in Eclipse with methods that involve calculation of basic math operations. I declared variables for basic math operations that include addition, subtraction, multiplication, and division. I also imported the java.util.Scanner to create a Scanner object in the program in order to run the program successfully. System.out.print is a Java statement that allows to execute the program. In this program, a user enters 2 numbers and then the program automatically calculates the 2 numbers and shows the result of the sum, difference, multiplication and division.



The screenshot displays the Eclipse IDE interface. The Package Explorer on the left shows a project named 'HW1' with a source folder 'src' containing the file 'hw1.java'. The main editor window shows the code for 'hw1.java'.

```
1 package HW1;
2 import java.util.Scanner;
3
4 // NAME: Puja Roy
5 // DATE: 2/18/22
6 public class hw1 {
7
8     public static void main(String[] args) {
9         // TODO Auto-generated method stub
10
11         int first, second, add, subtract, multiply;
12         float divide;
13         Scanner scanner = new Scanner(System.in);
14
15         System.out.print("Enter Two Numbers : ");
16         first = scanner.nextInt(); // Declare a variable for entering the first number in the program
17         second = scanner.nextInt(); // Declare a variable for entering the second number in the program
18
19         add = first + second; // Declare a variable for the addition method
20         subtract = first - second; // Declare a variable for the subtraction method
21         multiply = first * second; // Declare a variable for the multiplication method
22         divide = (float) first / second; // Declare a variable for the division method
23
24         System.out.println("Sum = " + add); // The system prints the output of the addition method
25         System.out.println("Difference = " + subtract); // The system prints the output of the addition method
26         System.out.println("Multiplication = " + multiply); // The system prints the output of the multiplication method
27         System.out.println("Division = " + divide); // The system prints the output of the division method
28     }
29 }
30 }
31 }
```

The Outline view on the right shows the class structure with 'main(String[]): void' listed.

The Console view at the bottom shows the output of the program:

```
<terminated> hw1 [Java Application] C:\Users\puja\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20211116-1657\jre\bin\javaw.exe (Feb 19, 2022, 8:36:38 PM - 8:36:46 PM)
Enter Two Numbers : 5 9
Sum = 14
Difference = -4
Multiplication = 45
Division = 0.5555556
```