EAST WEST UNIVERSITY
Department of Computer Science and Engineering
B.Sc. in Computer Science and Engineering Program
Lab 2, Spring 2020 Semester

Course: CSE 110 Object Oriented Programming, Section-2,3
Instructor: Mahamudul Hasan, Lecturer, CSE Department
Full Marks: TBA
Time: 3 Hours

1.	Write a Java program to print 'Hello' on screen and then print your name on a separate line. Expected Output: Hello Donald Trump
2.	Write a Java program to print the sum of two numbers. Test Data: 74 + 36 Expected Output: 110
3.	Write a Java program to divide two numbers and print on the screen. Test Data: 50/3 Expected Output: 16
4.	Write a Java program to print the result of the following operations. Test Data: a. -5 + 8 * 6 b. (55+9) % 9 c. 20 + -3*5 / 8 d. 5 + 15 / 3 * 2 - 8 % 3 Expected Output: 43 1 19 13
5.	Write a Java program that takes two numbers as input and display the product of two numbers. Test Data: Input first number: 25 Input second number: 5 Expected Output: 25 x 5 = 125

6.	Write a Java program to print the sum (addition), multiply, subtract, divide and remainder of two numbers. Test Data: Input first number: 125 Input second number: 24 Expected Output: 125 + 24 = 149 125 - 24 = 101 125 x 24 = 3000 125 / 24 = 5
7.	Write a Java program that takes a number as input and prints its multiplication table upto 10. Test Data: Input a number: 8 Expected Output: 8 x 1 = 8 8 x 2 = 16 8 x 3 = 24 8 x 10 = 80
8.	Write a Java program to compute the specified expressions and print the output. Test Data: ((25.5 * 3.5 - 3.5 * 3.5) / (40.5 - 4.5)) Expected Output 2.138888888888889
9.	Write a Java program to compute a specified formula. Specified Formula: 4.0 * (1 - (1.0/3) + (1.0/5) - (1.0/7) + (1.0/9) - (1.0/11)) Expected Output 2.9760461760461765
10.	Write a Java program to print the area and perimeter of a circle. Test Data: Radius = 7.5 Expected Output Perimeter is = 47.12388980384689 Area is = 176.71458676442586
11.	Write a Java program that takes three numbers as input to calculate and print the average of the numbers.
12.	Write a Java program to print the area and perimeter of a rectangle. Test Data: Width = 5.5 Height = 8.5 Expected Output Area is 5.6 * 8.5 = 47.60 Perimeter is 2 * (5.6 + 8.5) = 28.20
13.	Write a Java program to swap two variables.

14.	Write a Java program to compare two numbers. Input Data: Input first integer: 25 Input second integer: 39 Expected Output 25 != 39 25 < 39 25 <= 39
15.	Write a Java program and compute the sum of the digits of an integer. Input Data: Input an integer: 25 Expected Output The sum of the digits is: 7
16.	Write a Java program to print the odd numbers from 1 to 99. Prints one number per line. Sample Output: 1 3 5 .... 97 99
17.	Write a Java program to accept a number and check the number is even or not. Prints 1 if the number is even or 0 if the number is odd. Sample Output: Input a number: 20 1
18.	Write a Java program to calculate the sum of two integers and return true if the sum is equal to a third integer. Sample Output: Input the first number : 5 Input the second number: 10 Input the third number : 15 The result is: true
19.	Write a Java program that accepts three integer values and return true if one of them is 20 or more and less than the subtractions of others. Sample Output: Input the first number: 15 Input the second number: 20 Input the third number: 25 false
20.	Write a Java program that accepts two integer values between 25 to 75 and return true if there is a common digit in both numbers. Sample Output: Input the first number : 35 Input the second number: 45 Result: true
21.	Write a Java program to compute the sum of the first 100 prime numbers. Sample Output: Sum of the first 100 prime numbers: 24133