Lab 1

1. Write a Java program to print the sum (addition), multiply, subtract, divide and remainder of two numbers , takes two numbers as input

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

125 mod 24 = 5

2. Write a Java program that takes a number as input and prints its multiplication table up to 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

3. 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

4. Java program to find out the average of a set of integers

Enter the count of numbers:

5

Enter an integer:

3

Enter an integer:

8

Enter an integer:

6

Enter an integer:

7

Enter an integer:

2

The average is: 5.2

5. 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

6. Write a Java program to reverse a word.

Sample Output:

Input a word: dsaf

Reverse word: fasd

7 - Java program to check whether the given number is even or odd

Enter a number:

33

The number is Odd

Enter a number:

24

The number is Even

8 - Java program to convert the temperature in Centigrade to Fahrenheit

Enter temperature in Centigrade:

43

Temperature in Fahrenheit is: 109.4

9.Write a Java program that takes a string and a number from the user,then prints the character in the given index.

Test Data:

Input a string: Java Bootcamp

Input a number: 1

Expected Output:

a

10. 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

11. 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

12. Write a Java program to convert seconds to hours, minutes and seconds.

Sample Output:

Input seconds: 86399

23:59:59

13. Write a Java program that accepts four integers from the user and prints equal if all four are equal, and not equal otherwise.

Sample Output:

Input first number: 25

Input second number: 37

Input third number: 45

Input fourth number: 23

Numbers are not equal!

14. Write a Java program that reads an integer and check whether it is negative, zero, or positive.

Test Data
Input a number: 7
Expected Output :

Number is positive

15. Write a program to enter the numbers till the user wants and at the end it should display the count of positive, negative and zeros entered

(End loop use -1 , Don't count -1).

Test data
1
3
0
-2
-4
-1
2 positives
1 zero
2 negatives