

CSE110 Practice Assignment 05

Task 1:

Write **javacode** for the following:

- 1) Ask the user to enter the name of his favorite car.
- 2) Ask the user to enter a Number
- 3) Display the name of the user's favorite car, number of time specified in the second step. Example:

If the user enters "Toyota" and 20, your program should print the name Toyota twenty times.

Task 2:

Write **javacode** to display all the odd numbers between 10 and 50.

Task 3:

Write **javacode** for the following:

Take twenty numbers input from the user and print the maximum and the average.

Task 4:

Write **javacode** for the following:

Take twenty numbers input from the user and find the minimum from all numbers and the average of the even numbers entered by the user. [If the user enters odd numbers ignore them]

Task 5:

Write **javacode** that reads the value of n and calculates the value of y if the expression of y is as follows:

$$Y^3 = 1^3 + 2^3 + 3^3 + 4^3 + 5^3 + 6^3 + \dots + N^3$$

Task 6:

Write **javacode** that will calculate the value of y if the expression of y is as follows (n is the input):

$$Y = 1^2 - 2^2 + 3^2 - 4^2 + 5^2 \dots + N^2$$

Task 7:

Write **javacode** of a program which adds all numbers that are multiples of both 7 and 9 up to 600.

Task 8:

Write **javacode** of a program which adds all numbers that are multiples of either 7 or 9 up to 600. Ensure that numbers like 63 are added only once in the sum.

Task 9:

Write **javacode** of a program which adds all numbers that are multiples of either 7 or 9 but not both, up to 600.

Task 10:

Write **javacode** of a program that asks the user to enter ten numbers then display ONLY the total and the average of the odd numbers among those ten numbers.

[Hint: Example Input: 1 2 3 4 5 6 7 8 9 10 and Example Output: Total is 25 and Average is 5 (i.e., Total is $25 = (1+3+5+7+9)$ and Average is $25/5 = 5$)]

Task 11:

Solve Task 10 for even numbers instead of odd numbers.

Task 12:

Solve Task 10 for numbers that are multiples of 4, instead of odd numbers.

Task 13:

Write **javacode** of a program that reads a number N, and prints out the sum of all odd numbers from 1 to N inclusive. For instance, if the input is 6, the output for the program should be 9.

Task 14:

Write **javacode** of a program that reads a list of numbers, and prints out the product of all the numbers read. You may assume that the user first inputs the total number of numbers. For example, if the first input is 4, then the program has to read in four numbers from the user, and print out the product of these four numbers. Assume that user will never enter first number as zero.

Task 15:

Write **javacode** of a program that will read 20 numbers from the user, and then print the sum of first number, then sum of the first 2 numbers, sum of first 3 numbers, and so on up to the sum of 20 numbers.