

Assignment 01 Internet Technologies

University of Vocational Technology

Batch: 2021/2022 -B2

B. Tech in Software Technology/Network Technology/Multimedia and Web Technology

Lecturer - K.D.Chandima

Deadline: 15th of November 2022 11.59PM

1. Write a JavaScript program to allow the user to input two numbers and compute the average of the entered numbers. Note that, you can convert a string into number using Number() function. Number("3") return/output 3.

https://www.w3schools.com/js/js_number_methods.asp

Study the task of `Number()`, `parseInt()`, `parseFloat()` methods/functions.
(The picture below display a sample output.)

Find Average

Enter number 1

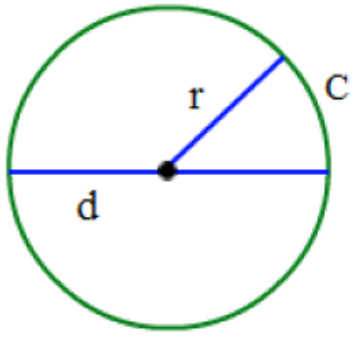
Enter number 2

Average is: 5

Diagram labels and arrows:

- Paragraph**: Points to the text "Average is: 5".
- Submit Button**: Points to the "find average" button.
- Single-line text input control**: Points to both input fields.

2. Write a JavaScript program to calculate the **Diameter**, **Circumference** and **Area** of a circle, if the radius is given as an input. (Consider $\pi = 3.145$). Create **three functions** to calculate Diameter, Circumference and Area.

	Diameter (d)	$d = 2r$
	Circumference (c)	$c = 2 * \pi * r$
	Area (a)	$a = \pi * r * r$

(The picture below display a sample output.)

Find diameter, Circumference and Area

Enter radius

find Diameter

diameter = 4

find Circumference

Circumference = 12.58

find Area

Area = 12.58

Single-line text input control

Submit Buttons

Label

3. Write a JavaScript program to convert US dollars to rupees and rupees to US dollars.

218.16 Rs = 1 Dollar

Generate a similar output as in the following picture. Colors and background colors should be applied using CSS (Cascade Style Sheets). The program should only accept integers, if strings are inputted appropriate error message should be displayed. You can check NaN by using isNaN() function. isNaN(NaN) returns true.

https://www.w3schools.com/jsref/jsref_isnan.asp

(The picture below display a sample output)

The screenshot shows a web application titled "Currency converter". It has two sections: "Convert dollers to rupees" and "Convert rupees to dollers". The first section has an input field with "2" and a button "Convert Dollars to Rupees", showing the result "Rupees = 436.32". The second section has an input field with "500" and a button "Convert Rupees to Dollars", showing the result "Dollars = 2.291895856252292". Annotations with arrows point to the input fields and buttons, with labels "Single-line text input control" and "Submit Button".

Currency converter

Convert dollers to rupees

Enter amount in dollars:

Rupees = 436.32

Convert rupees to dollers

Enter amount in rupees:

Dollars = 2.291895856252292

Single-line text input control

Submit Button

4. Write a JavaScript program to enter a number and find out whether the number is an odd number (ඔත්තේ සංඛ්‍යා) or even number (ඉරට්ටේ සංඛ්‍යා).

(The pictures below display some sample output)

find the number odd or even

Enter a number:

Find

You have entered Even Number

find the number odd or even

Enter a number:

Find

You have entered Odd Number

find the number odd or even

Enter a number:

Find

Please enter a number

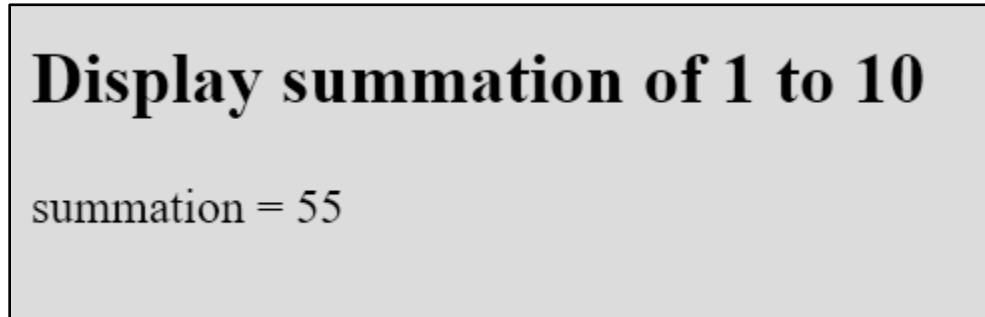
5. Using a proper loop statement (For) in JavaScript and try display all the even numbers between 1 to 50.
(The pictures below display some sample output)

Display all the even numbers from 1 to 50

2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50

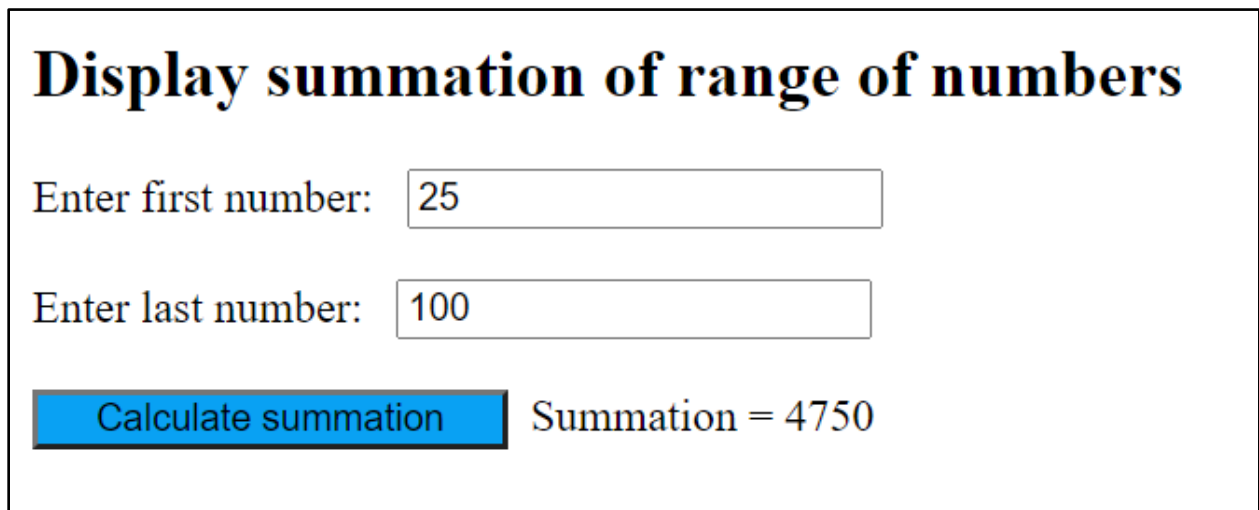
6. Using a proper loop statement in JavaScript, Try to display Summation of all the numbers from 1 to 10.

(The pictures below display some sample output)



7. Change the above JavaScript code to get first number and last number from the user and display the summation.

(The pictures below display some sample output)

A screenshot of a web application with a white background. At the top, the text "Display summation of range of numbers" is displayed in a large, bold, black serif font. Below this, there are two input fields. The first is labeled "Enter first number:" and contains the value "25". The second is labeled "Enter last number:" and contains the value "100". Below these inputs is a blue button with the text "Calculate summation" in white. To the right of the button, the text "Summation = 4750" is displayed in a black serif font.

8. Sort arr1 array in ascending order
arr1 = [3, 8, 7, 6, 5, -4, 3, 2, 1]
9. Find the largest value of the following array.
arr1 = [3, 8, 7, 6, 5, -4, 3, 2, 1]
10. Find the smallest number of the following array.
arr1 = [3, 8, 7, 6, 5, -4, 3, 2, 1]

Instructions to submit your answers.

1. Save the source code of each question in different html file. Name each file with the question name. E.g: the HTML file of first question should be saved as Question 01.html
2. Inside each html file, make a comment indicating your registration number and official name.
3. Make a folder with your registration number and put all the seven HTML files into the folder. Then compress the folder into a ZIP file. Eg: SOF-21-B2-01.zip
4. Submit the zip file to the Google class room assignment.



SOF-21-B2-01.rar