[](https://www.w3resource.com/javascript-exercises/)Lesson 21 – JavaScript Exercise

**Goals**: Practice creation of simple JS programs focused on:

* *print / by modifying an HTML document*
* *input / by reading values from the user via prompt*
* *working with values, literals/variables,*
* *operators, operations/expressions,*
* *comparison, conditions and loops*
* *string manipulation*
* *code debugging*

**JS Debugging:**

* read about tracing code errors at: <https://www.w3schools.com/js/js_debugging.asp>

**Exercises:** Create a new HTML file for each of the tasks below:

1. Write a JavaScript program to [print](https://www.w3schools.com/js/js_output.asp) the "Hello World!" to the page.
2. Write a JavaScript program to print the contents ([entire HTML](https://stackoverflow.com/questions/817218/how-to-get-the-entire-document-html-as-a-string)) of the current document.
3. Write a JavaScript program that [asks for your name](https://www.w3resource.com/javascript/alert-prompt-confirm.php) and displays it using an alert box.
4. Write a JavaScript program that asks the user to input three numbers (a, b, c), [converts](https://www.w3schools.com/js/js_type_conversion.asp) the inputs to the proper numeric data type and prints the area of a triangle where lengths of the sides are a, b, c.
5. Write a JavaScript [conditional statement](https://www.w3schools.com/js/js_if_else.asp) to sort 3 numbers. Display an alert box to show the result.
6. Write a JavaScript conditional statement to find the sign of product of three numbers. Display an alert box with the specified sign.
7. Write a JavaScript [FOR loop](https://www.w3schools.com/js/js_loop_for.asp) that will iterate from 0 to 15. For each iteration, it will check if the current number is odd or even, and display a message to the screen. Sample output:

0 is even

1 is odd

2 is even

…

1. Write a JavaScript program to construct the following pattern, using a nested FOR loop:

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

1. Write a JavaScript program, that will prompt the user to input a series of numbers [ending with](https://www.w3schools.com/js/js_loop_while.asp) zero. Alert the maximum value of the series.

**↓↓↓ continue on the next page ↓↓↓**

**Homework:**

* Read the tutorial on string manipulation:
  + <https://www.w3schools.com/js/js_string_methods.asp>
* Complete online exercises:
  + [[1]](https://www.w3schools.com/js/exercise_js.asp?filename=exercise_js_strings1), [[2]](https://www.w3schools.com/js/exercise_js.asp?filename=exercise_js_strings2), [[3]](https://www.w3schools.com/js/exercise_js.asp?filename=exercise_js_strings3), [[4]](https://www.w3schools.com/js/exercise_js.asp?filename=exercise_js_strings4), [[5]](https://www.w3schools.com/js/exercise_js.asp?filename=exercise_js_strings5), [[6]](https://www.w3schools.com/js/exercise_js.asp?filename=exercise_js_strings6), [[7]](https://www.w3schools.com/js/exercise_js.asp?filename=exercise_js_strings7), [[8]](https://www.w3schools.com/js/exercise_js.asp?filename=exercise_js_strings8), [[9]](https://www.w3schools.com/js/exercise_js.asp?filename=exercise_js_strings9)

**Exercises**:

1. Write a JavaScript program to check whether a user input is blank or not.
2. Write a JavaScript program to capitalize the first letter of each word in a string.
3. Write a JavaScript program that checks each letter of a string within a FOR loop and swaps the case of each letter:

Example input: "Hello World". Example output: "hELLO wORLD".

1. Write a JavaScript program to hide an email addresses to protect from unauthorized user. Use slicing and replacement methods

Example input: " robin\_singh@example.com". Example output: " r\*\*\*@example.com".

1. Write a JavaScript program to concatenate a user input n times (default is 1):

Example input:

text = prompt("Enter a string: ") // where user inputs "Ha!"

count = prompt("Times to repeat: ") // where user inputs 3

Example output:

"Ha!Ha!Ha!"

1. Write a JavaScript program to check whether there is a word contained within a sentence provided by a user input.

**Next lesson ---> TEST!**