

## Lesson 21 – JavaScript Exercise

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**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*



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### JS Debugging:

- read about tracing code errors at: [https://www.w3schools.com/js/js\\_debugging.asp](https://www.w3schools.com/js/js_debugging.asp)
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**Exercises:** Create a new HTML file for each of the tasks below:

1. Write a JavaScript program to [print](#) the "Hello World!" to the page.
2. Write a JavaScript program to print the contents ([entire HTML](#)) of the current document.
3. Write a JavaScript program that [asks for your name](#) and displays it using an alert box.
4. Write a JavaScript program that asks the user to input three numbers (a, b, c), [converts](#) 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](#) 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](#) 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
...
```

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

```
*
* *
* * *
* * * *
* * * * *
```

9. Write a JavaScript program, that will prompt the user to input a series of numbers [ending with](#) zero. Alert the maximum value of the series.
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**Homework:**

- Read the tutorial on string manipulation:
    - o [https://www.w3schools.com/js/js\\_string\\_methods.asp](https://www.w3schools.com/js/js_string_methods.asp)
  - Complete online exercises:
    - o [\[1\]](#), [\[2\]](#), [\[3\]](#), [\[4\]](#), [\[5\]](#), [\[6\]](#), [\[7\]](#), [\[8\]](#), [\[9\]](#)
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**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".

4. 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".

5. 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!"

6. Write a JavaScript program to check whether there is a word contained within a sentence provided by a user input.
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**Next lesson ---> TEST!**