# Homework: JavaScript Functions and Objects

This document defines the homework assignments from the [“JavaScript Basics“ Course @ Software University](http://softuni.bg/courses/javascript-basics/). Please submit as homework a single zip / rar / 7z archive holding the solutions (source code) of all below described problems.

## Last Digit of Number

Write a JavaScript function **findLastDigit(number)** that returns the **last** digit of given integer as an English word.  
Write a JS program **lastDigitOfNumber.js** that invokes your function with the sample input data below and prints the output at the console. Examples:

|  |  |
| --- | --- |
| **Input** | **Output** |
| 6 | Six |
| -55 | Five |
| 133 | Three |
| 14567 | Seven |

## N-th Digit of Number

Write a JavaScript function **findNthDigit(value)** that accepts as a parameter an array of two numbers and returns the **n-th** digit of given **decimal number** counted from **right to left** as an English word. You may need to use regex.  
Write a JS program **nthDigitOfNumber.js** that invokes your function with the sample input data below and prints the output at the console. Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| [1, **6**] | Six |
| [2, -**5**5] | Five |
| [6, **9**23456] | Nine |
| [3, 145**1**.78] | One |
| [6, 888.88] | The number doesn’t have 6 digits |

## Count number of divs

Write a JavaScript function **countDivs()** to count the number of all divs on the web page.  
Write a HTML file **countAllDivs.html** with the sample input data below and JS program **nthDigitOfNumber.js** that invokes your function and prints the output at the console. Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| <!DOCTYPE html>  <html>  <head lang="en">  <meta charset="UTF-8">  <title>index</title>  <script src="/yoursSript.js" defer></script>  </head>  <body>  <div>  <div>  <div>  <div></div>  </div>  </div>  <div></div>  <div></div>  <div></div>  </div>  </body>  </html> | 7 |

## Bigger Then Neighbors

Write a JavaScript function **biggerThanNeighbors(index, arr)** that accept a **number** and an **integer** **array** as parameters. The function should **print on the console** if the element at the given position in the array is **bigger** than its two neighbors (when such exist). Examples:

|  |  |
| --- | --- |
| **Input** | **Output** |
| 2, [1, 2, **3**, 3, 5 ] | not bigger than neighbors |
| 2, [1, 2, **5**, 3, 4 ] | bigger than neighbors |
| 5, [1, 2, 5, 3, 4 ] | no such index |
| 0, [1, 2, 5, 3, 4 ] | only one neighbor |

## Reverse Every Word in a String

Write a JavaScript function **reverseWordsInString(str)** that reverse every word in the string but leaves the words in the **same order**. Write a JavaScript program **reverseWords.js** that prints on the console the newly formed string.   
Examples:

|  |  |
| --- | --- |
| **Input** | **Output** |
| Hello, how are you. | ,olleH woh era .uoy |
| Life is pretty good isn’t it? | efiL si ytterp ,ecin t'nsi ?ti |

## Sum of Two Huge Numbers

Write a JavaScript function **sumTwoHugeNumbers(value)** that accepts as parameter an array of the 2 numbers to be summed. The input numbers are represented as **strings**. The result should be printed on the console. Example:

|  |  |
| --- | --- |
| **Input** | **Output** |
| ['155', '**65**'] | 220 |
| ['123456789', '123456789'] | 246913578 |
| ['887987345974539','4582796427862587'] | 5470783773837126 |
| ['347135713985789531798031509832579382573195807',  '817651358763158761358796358971685973163314321'] | 164787072748948293156827868804265355736510128 |