Course
JavaScript Programming Language and jQuery

Module 2

TOPIC: OBJECT. ARRAYS. ARRAY OBJECT. STRINGS. STRING OBJECT. DATE OBJECT. MATH OBJECT. INTRODUCTION TO OOP

Task

1. Write a function that takes a string and displays statistics about it: number of letters, number of digits, and number of other characters.

2. Write a function that takes a two-digit number and returns it in text form.
    For example: `35 – thirty five`, `89 – eighty nine`, `12 – twelve`.

3. Write a function that replaces capital letters with small, small with capital, and numbers with underscore in the received string.

4. Write a function that converts names of css styles with a hyphen to a name in the *CamelCase* style: `font-size` to `fontSize`, `background-color` to `backgroundColor`, `text-align` to `textAlign`.

5. Write a function that takes a phrase and converts it to an abbreviation.
    For example: `cascading style sheets` to `CSS`, `object-oriented programming` to `OOP`.

6. Write a function that takes any number of strings, combines them into one long string and returns it.

7. Write a calculator function. The function takes a string with an example, determines what is to be done (+ - * /), converts operands to numbers, solves it, and returns the result.

8. Write a function that gets a *url* and displays detailed information about it.
   For example: url "https://itstep.org/ua/about", "protocol: https, domain: itstep.org, path: /ua/about".

9. Write a function that takes a string and delimiter and returns an array of substrings that are broken up using the specified delimiter.
   For example: line "10/08/2020", separator "/", the result: "10", "08", "2020".
   While performing the task, do not use the split() function.

10. Write a function to output text according to a given template. As the first parameter, the function takes a template that can use % in the text, index of the input parameter is specified after the % sign. When outputting index instead of %, output value of the corresponding input parameter.
    For example: print("Today is %1 %2.%3.%4", "Monday", 10, 8, 2020) must print "Today is Monday 10.8.2020".