

## 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 2 strings and compares their length. The function returns 1 if the first line contains more characters than the second, -1 if the second contains more characters than the first, or 0 if the strings are of the same length.
2. Write a function that converts the first character of a passed string to uppercase.
3. Write a function that counts vowels in a passed string.
4. 4. Write a function to check spam in a passed string. The function returns true if the string contains spam. The following words are to be considered as spam: 100% free, sales increase, only today, do not delete, xxx. The function must be case insensitive.
5. Write a truncate function. The function takes a string and its maximum length. If the string length is greater than the maximum, then extra characters are discarded, and multiple periods are added instead of them.  
For example: `truncate("Hello, world!", 8)` should return "Hello..."

6. Write a function that checks whether the passed string is a palindrome.
7. Write a function that counts words in a sentence.
8. Write a function that returns the longest word in a sentence.
9. Write a function that considers the average word length in a sentence.
10. Write a function that takes a string and a character and outputs index of the character position in the string. Also, output how many times this character occurs in a string.