Javascript Lab Seminar

MELL-JAVASCRIPT-01

Day 01

My String

v1.61

Day 00

My String

repository name: javascript_lab

branch name: day_01

Your repository must contain the totality of your source files.

You are only allow to use **var let const if while** and **for**
Do not use any function of any kind that is not your. If you need to use concact() method then create it.

THINK. Please.

THINK

Multiple arguments ?

```
const testounet = (...arguments) => { console.log(arguments)}
```

Prototype ?

```
String.prototype.my_func = function (param) { … }
```

Please note that none of your files must contain a index.js function, unless specified otherwise. We will use our own main functions to compile and test your code.

Task 01

my_to_upper_case

Write a prototype of String that returns the value of the current string converted to uppercase

```
my_to_upper_case()
```

exemple: `print(${“mellon”.my_to_upper_case()});`

output: `“MELLON”.`

Task 02

my_to_lower_case

Write a prototype of String that returns the value of the current string converted to lowercase

```
my_to_lower_case()
```

exemple: `print(${“MELLON”.my_to_lower_case()});`

output: `“mellon”.`

Task 03

my_concat

Write a prototype of String that is used to join two or more strings together in JavaScript

```
my_concat(string2, string3, string4,......, stringN)
```

exemple: `print('It'.my_concat(' is',' a',' great',' day.'));`

output: `It is a great day.`

Task 04

my_char_at

Write a prototype of String that is used to return a new String that contains the character at the indicated position.

```
my_char_at(index)
```

exemple:

```
var sentence = 'The quick brown fox jumps over the lazy dog.';
```

```
var index = 4;
```

```
console.log('The character at index ' + index + ' is ' +
sentence.my_char_at(index));
```

output: "The character at index 4 is q"

Task 05

my_includes

Write a prototype of String that determines whether one string is contained in another and returns true or false depending on the case.

```
my_includes(chaîneRecherchée, position)
```

chaîneRecherchée
A string to search in the current string.

position (optional)
current The position in the String from which the search will begin. The default position value is 0.

exemple:

```
var sentence = 'The quick brown fox jumps over the lazy dog.';

var word = 'fox';

console.log(`The word "${word}" ${sentence.my_includes(word)? 'is'
: 'is not'} in the sentence`);
```

output: `"The word "fox" is in the sentence"`

Task 06

is_empty

Write a prototype of String that determines whether the string is empty and returns true or false depending on the case.

```
is_empty()
```

exemple:

```
var sentence = 'The quick brown fox jumps over the lazy dog.';
```

```
console.log(`The sentence ${sentence.is_empty()? 'is' : 'is not'}
empty`);
```

output: "`The sentence is not empty`"

Task 07

my_insert

Write a prototype of String that is used to insert a srting into another in a given position

```
my_insert(string1, position)
```

`string1`
A string to search in the current string.

`position` (optional)
current The position in the String from which the insert will begin. The default position value is 0.

exemple:

```
var sentence = 'The quick brown jumps over the lazy dog.';

var word = 'fox ';

console.log(`${sentence.my_insert(word, 16)}`);
```

output: `"The quick brown fox jumps over the lazy dog."`

Task 08

my_split

Write a prototype of String that allows you to divide a string from a separator to provide an array of substrings.

```
my_split(séparateur)
```

Séparateur

A string that defines the character or characters to use to split the string.

exemple:

```
var str = 'The quick brown fox jumps over the lazy dog.';

var words = str.split(' ');

console.log(words[3]);
```

output: `"fox"`

Task 09

my_substr

Write a prototype of String that returns the part of a string between the starting index and a number of characters after it.

```
my_substr(début, longueur)
```

`début`
The index of the first character to be included in the returned substring.

`longueur`
The number of characters to extract.

exemple:

```
var str = 'Mozilla';
```

```
console.log(str.substr(1, 2));
```

output: `"oz"`