Javascript Level 1 Exercises
Set 3

#1. Count Sub String

Write a JavaScript function to count the occurrence of a substring in a string.

Examples:

```
INPUT: count("The quick brown fox jumps over the lazy dog", 'the')
OUTPUT: 2

INPUT: count("The quick brown fox jumps over the lazy dog", 'fox')
OUTPUT: 1
```

#2. Repeat a String

Write a JavaScript function to repeat a string a specified times.

Note - without using repeat() method

Examples:

```
INPUT: repeatString('a', 4)
OUTPUT: 'aaaa'

INPUT: repeatString('a')
OUTPUT: 'error in string or count'
```

#3. Check object property

Write a function called stringFromObject that generates a string from an object's key/value pairs.
The format should be "key = value, key = value".
Each key/value pair should be separated by a comma and space except for the last pair.

Examples:

```
INPUT: checkObject({'name':'gokul','city':'bangalore'},'name')
OUTPUT: true

INPUT: checkObject({'name':'gokul','city':'bangalore'},'age')
OUTPUT: false
```

#4. Convert object to string

Have the function palindrome(str) accept a string argument, and return the boolean true if the argument is a palindrome(meaning that the string is the same forward as it is backward).Otherwise, return the boolean false.

Examples:

```
INPUT: stringFromObject({ a: 1, b: '2' })
OUTPUT: "a = 1, b = 2"

INPUT: stringFromObject({ name: 'Elie', job: 'Instructor', isCatOwner: false })
OUTPUT: "name = Elie, job = Instructor, isCatOwner = false"
```

#5. Swap key value in an object

Write a function called swapKeyAndValue, which accepts an object and a key.

The function should return a new object with the given key and its value flipped, and all the other key/value pairs unchanged.

Examples:

```
const instructor = { name: 'Elie', job: 'Instructor' }

INPUT: swapKeyAndValue(instructor, 'name')
OUTPUT: {Elie: 'name', job: "Instructor"}

INPUT: swapKeyAndValue(instructor, 'job')
OUTPUT: {name: "Elie", Instructor: 'job'}
```

#6. Random Element

Write a JavaScript function to get a random item from an array.

Examples:

```
INPUT: randomElement([10,20,30,40])
OUTPUT: it should return some random element from array

INPUT: randomElement(['d','c','t'])
OUTPUT: it should return some random element from array
```

#7. Last N Elements

Write a JavaScript function to get the last element of an array. Passing a parameter 'n' will return the last 'n' elements of the array.

Examples:

```
INPUT: last([7, 9, 0, -2])
OUTPUT: -2

INPUT: last([7, 9, 0, -2],3)
OUTPUT: [9, 0, -2]

INPUT: last([7, 9, 0, -2],6)
OUTPUT: [7, 9, 0, -2]
```

#8. Capitalize Words

Write a JavaScript function to capitalize each word in the string.

Example:

```
INPUT: capitalizeWords('js string exercises')
OUTPUT: "Js String Exercises"
```