JavaScript – for Loop

Practice Problems

Answer the following questions and run the code in Codepen.

Q1. Write a JavaScript program to **encode** a message in the language which hackers use to communicate.

See 19. exercise 1.js

Example

Hackers write "javascript is cool" as "j4v45cr1pt 15 c00l"

Instructions:
The program should replace all 'a' with '4', 'e' with '3', 'i' with '1', 'o' with '0' and 's' with '5'.

String to convert:
'Optimism is the faith that leads to achievement. Nothing can be done without hope and confidence. '

Q2. Write a JavaScript program to find how many **vowels** are there in the sentence.

Sentence:

> Good, better, best. Never let it rest. 'Til your good is better and your better is best.

<p style="color:red; text-align:center;">See 19. exercise 2.js</p>

Output:

> Number of vowels = 25

Q3. Write a JavaScript program which accepts a string as input and swap the case of each character.

[Hint: You can create two string variables of all alphabets in lowercase(a-z) and in upper
case(A-Z).]

Sample Data   See 19. exercise 3.js

Input:

'The Quick Brown Fox'

Output:

'tHE qUICK bROWN fOX'

Q4. Write a JavaScript for loop that will iterate from **0** to **10**. For each iteration, it will check if the current number is **odd** or **even**, and display a message to the screen.

See 19. exercise 4.js

Output:

```
"0 is even"
"1 is odd"
"2 is even"
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Q5. Write a JavaScript function that will reverse all the words which are of **odd length**. The even length words are not changed.

Sample Data

Input:

> 'There is exactly one space between each word and no punctuation is used.'

See 19. exercise 5.js

Output:

> "erehT is yltcaxe eno ecaps neewteb each word dna no noitautcnup is used"

Codepen URL: https://codepen.io/qaifikhan/pen/EMXZQE

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All the Best!