Control flow

Intstructions:

Create a new github repository named “control-flow-exercises”, clone it into your WSL, open it in vscode and create a new file called “index.js” and start coding! Good luck!

Ex 1:

Define a function *isFive* that will return `*true*` if a number is equal to 5 and `*false*` if it is not.

Ex 2:

Write a function *isSubstring* that takes in two strings, *searchString* and *subString*. The function should return *true* if *subString* is a part of *thesearchString*, regardless of upper or lower case, and *false* if otherwise.

Ex 3:

Write a function named *eitherStringIncluded(sentence, word1, word2)* that accepts a sentence and two words as arguments. The *eitherStringIncluded* function should return *true* if either *word1* or *word2* is found in the sentence, and *false* if neither is found.

Hint: the String.includes method will return *true* or *false* if a given string is included in another string.

Ex 4:

Define a function *logBetween(lowNum, highNum)* that will print every number from *lowNum* to *highNum*, inclusive. Inclusive means that the range includes *lowNum* and *highNum*.

Hint: this function only needs to print using *console.log* **it does not** need to *return*.

Ex 5:

Write a function *logBetweenStepper(min, max, step)* that takes in 3 numbers as parameters. The function should print out numbers between *min* and *max* at *step* intervals. See the following examples.

Example:

logBetweenStepper(-10, 15, 5) // prints out:

-10

-5

0

5

10

15

Ex 6:

Define a function *fizzBuzz(max)* that takes a number and prints every number from 0 to *max* (not inclusive) that is divisible by either 3 or 5, but **not both.**

Example:

fizzBuzz(20); // prints out:

3

5

6

9

10

12

18

Ex 7:

Write a function *leastCommonMultiple(num1, num2)* that accepts two numbers as arguments. The functions should return the smallest number that is divisible by both *num1* and *num2*.

Ex 8:

Define a function *isPrime(number)* that returns *true* if number is prime. Otherwise, *false*. A number is prime if it is only divisible by 1 and itself.