

Exercise Data type

Exercise: Level 1

1. Declare a variable named `challenge` and assign it to an initial value `' '`.
2. Print the string on the browser console using `console.log()`
3. Print the **length** of the string on the browser console using `console.log()`
4. Change all the string characters to capital letters using `toUpperCase()` method
5. Change all the string characters to lowercase letters using `toLowerCase()` method
6. Cut (slice) out the first word of the string using `substr()` or `substring()` method
7. Slice out the phrase Full stack from Full stack JS track .
8. Check if the string contains a word **Script** using `includes()` method
9. Split the **string** into an **array** using `split()` method
10. Split the string Full stack JS track at the space using `split()` method
11. 'Facebook, Google, Microsoft, Apple, IBM, Oracle, Amazon' **split** the string at the comma and change it to an array.
12. Change Full stackJS track to Full stackJS group using `replace()` method.
13. What is character at index 15 in 'Full stack JS track ' string?
Use `charAt()` method.
14. What is the character code of J in 'Full stack JS track ' string
using `charCodeAt()`
15. Use `indexOf` to determine the position of the first occurrence of **a** in Full stackJS track
16. Use `lastIndexOf` to determine the position of the last occurrence of **a** in Full stackJS track
17. Use `indexOf` to find the position of the first occurrence of the word **because** in the following sentence: 'You cannot end a sentence with because because because is a conjunction'

18. Use **lastIndexOf** to find the position of the last occurrence of the word **because** in the following sentence: **'You cannot end a sentence with because because because is a conjunction'**
19. Use **search** to find the position of the first occurrence of the word **because** in the following sentence: **'You cannot end a sentence with because because because is a conjunction'**
20. Use **trim()** to remove any trailing whitespace at the beginning and the end of a string. E.g ' 30 Days Of JavaScript '.
21. Use **startsWith()** method with the string Full stackJS track and make the result true
22. Use **endsWith()** method with the string Full stackJS track and make the result true
23. Use **match()** method to find all the **a**'s in 30 Days Of JavaScript
24. Use **concat()** and merge 'full stack ' and 'JavaScript' to a single string, 'Full stack JS track'
25. Use **repeat()** method to print Full stackJS track 2 times

1. Using console.log() print out the following statement:

```
The quote 'There is no exercise better for the heart than reaching down and lifting people up.' by John Holmes teaches us to help one another.
```

2. Using console.log() print out the following quote by Mother Teresa:

```
"Love is not patronizing and charity isn't about pity, it is about love. Charity and love are the same -- with charity you give love, so don't just give money but reach out your hand instead."
```

3. Check if typeof '10' is exactly equal to 10. If not make it exactly equal.
4. Check if parseFloat('9.8') is equal to 10 if not make it exactly equal with 10.
5. Check if 'on' is found in both python and jargon
6. *I hope this course is not full of jargon.* Check if *jargon* is in the sentence.
7. Generate a random number between 0 and 100 inclusively.
8. Generate a random number between 50 and 100 inclusively.
9. Generate a random number between 0 and 255 inclusively.

10. Access the 'JavaScript' string characters using a random number.