JavaScript & Node.js Essentials for Test Automation

Cope Automation

Exercises

Declare three variables (e.g. day, month, year) in a single line and assign different values ("Monday", "Jan", 2023) and print them in the console

Assume a scenario where you wanted to check **who is using what operating system** (e.g. macOS or windows or others). Now, define a function (e.g. checkOS) with two parameters (e.g. personName and os) and perform the followings

- I. Check if the user always provides two values (e,g personName as 'Rob' and os as 'Windows'. if not, throw error saying "One or more values are missing..."
- 2. If user provides other data type than string, then throw error message saying "Only string values are accepted, but received values are <val 1 > and <val 2 > ".
- 3. Write a console message saying "Hello <name>, you have provided <os> as your operating system..."
- 4. If user provides any of the below values as os, then consider the os as "macOS" and return the message as "<Person name> is using macOS..."
 - a. Apple, apple, <space> Apple
- 5. If user provides any of the below values as os, then consider the os as "Windows" and return the message as "<Person name> is using Windows..."
 - a. <space>Windows, Windows, windows<space>
- 6. if user provides any other values as os, then return the message as ""<Person name> is using other OS...""

Test your function with the following input

I. "Rob"

Expected - Error: One or more vlaues are missing...

2. "Rob", 123

Expected - Error: Only string values are accepted, but received values are Rob and 123

3. "Rob", "Apple"

Expected - Hello Rob, you have provided apple as your operating system...

Rob is using macOS...

4. "Bob", "Windows"

Expected - Hello Bob, you have provided Windows as your operating system...

Bob is using Windows...

5. "John" "Linux"

Expected - Hello John, you have provided Linux as your operating system...

John is using other Os...

In your project root, under /data dir create a sub-folder called testFiles. Within test files, create different types of files (e.g. 3 text files, 2 json files, 3 csv files).

- a. Create a function that gets all files from testFiles directory and print the results in the console.
- b. Implement error handling so it can handle different scenario. Test your function with
 - i. Incorrect dir
 - ii. No files in the testFiles dir
 - iii. Correct path and files exists -> prints all the file names

Exercise - 4, 5, 6 (String Manipulation)

- 4. Print the following message in the console. Use single quote, double quote, and template literals
 - a. I'm doing well
- 5. In a given string, replace vowels with (-) and return the modified string
 - a. Given string: 'BYucze5zJIJOaJZTeX18oWMeo87VeJqC'
 - b. Expected: BY-cz-5zJIJO-JZT-X18-WM--87V-JqC
- 6. Convert SOUTH AFRICA to South Africa

Create an object from an given array, where the property name/key will be array's each element and value will be its equivalent number

- a. (e.g. {one: I}) and print the output in the console
- b. let arr = ["one", "two", "three", "four", "five"]
- c. expected: { one: I, two: 2, three: 3, four: 4, five: 5 }

Check if the value "JS" exists in the given array and print Found or Not Found accordingly

- a. Try this with with and without using Array's method
- b. let arr = ["Java", "JS", "Python", "C#"]

Exercise - 9, 10

- 9. Get only truthy value from given array and print the output
 - a. let arr = ["0", 0, "", "one", "two", NaN, "three"]
- 10. Convert all given string version of numbers into actual number array
 - a. let arr = ["I", "2", "3", "4", "5", "six"];
 - b. expected: [1, 2, 3, 4, 5]

Solutions

Refer to github page for sample solutions: https://github.com/copeautomation/js-essential-for-automation

Thank you