

1. Create a function that for 3 given number arguments returns their average
2. Create a function that returns an average for a given array.
3. Create a function that returns the squared value of a given number if the number is odd. Otherwise (if it's even) returns the square root of a given number (Use built in Math.sqrt() function).

4. Create a function that, for a given string, returns a new string with all letters sorted alphabetically.

We can use built in methods:

string.split("") - splits string to array with letters as elements

array.sort() - sorts the array

array.join("") - joins all array elements into a string

Strings can be compared with > and <, for example 'b' > 'a'

Example input: 'javascript'

Example output: 'aacijprstv'

5. Create a function that takes an array as a parameter and returns the last element of the given array.

6. Create a function that sums all elements of an array

7. Create an object square that has a property A which is the length of its sides. Add methods to this object that return the area and perimeter of this object. (area =  $a * a$ ; perimeter =  $4 * a$ )

8. Create an object shape that has properties: sides (3) and color (green). This object should also contain a method that will return this object's info - getInfo() and console log e.g. "green shape with 3 sides.

Call this method then change number of sides to 7 and color to red and getInfo() again

9. Write a function that accepts string and a callback function. If the string has less than 4 characters return the string, if it's longer, return the string converted to all-uppercase letters using the callback function.

10. Write a function that reverses the number.

Example x = 32243

Output: 34223

11. Write a function that checks whether a passed string is palindrome or not. A palindrome is word, phrase or sequence that reads the same backward and forward eg. "madam" or "nurses run"

12. Write a function that accepts a string as a parameter and find the longest word within the string.

13. Write a function that returns array elements larger than a number given as the second parameter

14. Write a function that generates a string of random characters (specified length).